Unicode request for musical bowing symbols

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This request is for two musical symbols that indicate special bowing techniques. These are standard symbols passing through the stem of a note; see the figures from Gould and Stone. They should be treated as combining with a stem.

There was some discussion at SEW as to how these marks should be represented. The closest analogy would seem to be 1D166 MUSICAL SYMBOL COMBINING SPRECHGESANG STEM. The *Sprechgesang* mark is shown on the Unicode chart precomposed with a stem, even though the stem is not integral to the symbol. For example, there is no stem when it combines with a whole note (Figure 2). In such cases the rendering software is expected to suppress the stem. (That is, there is no need for an additional Unicode character for a stemless *Sprechgesang* mark.) In Figure 3, we see that the requested bowing marks may retain their precomposed stem even when there is no stem on the note for them to combine with. We do not know if there are publishers who do not provide a stem in such situations, but if there are, the rendering software can handle that detail as it does for the *Sprechgesang* mark.

Thanks to the International Music Score Library Project (<u>https://imslp.org</u>) for facilitating access to public-domain music scores.

Characters

The proposed characters, along with their PUA points in the Standard Music Font Layout (SMuFL) specification, are:

Bowing marks

↓ U+1D280 MUSICAL SYMBOL COMBINING STEM BOW BEHIND BRIDGE [SMuFL E214]
↓ U+1D281 MUSICAL SYMBOL COMBINING STEM BOW ON TOP OF BRIDGE [SMuFL E215]

Properties

The bowing marks are treated as combining stems, analogous to 1D166 MUSICAL SYMBOL COMBINING SPRECHGESANG STEM. As with the *Sprechgesang*, it is possible a typographer may drop the stem when these bowing marks combine with whole notes, tuples and the like, though in the illustrations below they do not.

1D280;MUSICAL SYMBOL COMBINING STEM BOW BEHIND BRIDGE;Mc;216;L;;;;;N;;;; 1D281;MUSICAL SYMBOL COMBINING STEM BOW ON TOP OF BRIDGE;Mc;216;L;;;;N;;;;;

References

Gould, Elaine (2011). Behind Bars: The Definitive Guide to Musical Notation. Faber Music, London.

Stone, Kurt (1980). *Musical Notation in the Twentieth Century: A Practical Guidebook.* W. W. Norton & Company, New York and London.

Chart

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1D250 Musical Symbols Supplement 1D28F

Figures

The following symbols may be attached to the relevant stems and adopted for repeated use (to avoid copious instructions), as long as they are defined at their first appearance. The symbols reflect the curved shape of the bridge:

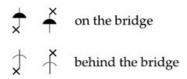


Fig. 1. Gould (2011: 408). Bowing marks combine with the stems of notes such as these quarter notes. (The x-shaped noteheads indicate that these are percussive 'ghost' notes.)

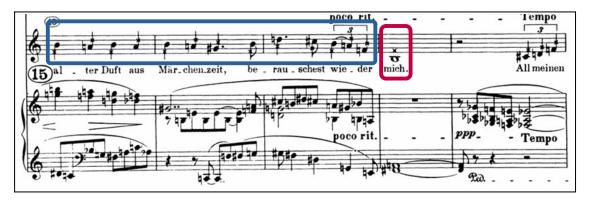


Fig. 2. Arnold Schoenberg, *Pierrot lunaire* No. 21 'O alter Duft,' illustrating the behaviour of the *Sprechgesang* mark. With quarter and eighth notes (blue), the mark combines with the stems of those notes. Where there is no stem to attach to, such as the whole note in the 4th measure (red), the mark floats above or below the note.

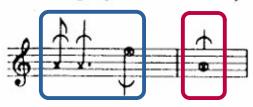
Bridge

A. Bowing behind the Bridge

The sign of a curved "bridge" should be used, regardless of the notational method employed (see below). The note-heads should be x-shaped.

1. ORDINARY FIVE-LINE-STAFF NOTATION

The stems must be fairly long, especially those with flags, to provide enough space outside the staff for the bridge symbol to be clearly visible:



If several consecutive notes are to be bowed behind the bridge, a broken continuation line may be used:



B. Bowing on Top of the Bridge

For details, see Bowing behind the Bridge above.

Observe that the bridge symbol differs somewhat from that for bowing behind the bridge.

The pitch is indeterminate, although the sound changes from string to string. Fingering does not affect it.



N.B.: This notation must not be confused with *ponticello* playing, which actually means next to the bridge, rather than on top of it.

Fig. 3. Stone (1980: 308–309). In these illustrations, the bowing marks have a stem even where the notes do not (the whole notes in the first and last illustrations, in red), or where the marks do not intersect with the stems (the tuplet in the second illustration, in orange). In blue are eighth, quarter and half notes where the bowing marks combine with the stem as they do in Figure 1.

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 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 <i>Roadmaps</i> .						
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1. Title:	•	iscellaneous musical symbols				
2. Requester's name:	ber body/Liaison/Individual contribution):	Iared Bala, Kirk Miller				
4. Submission date:	ber body/ Liaison/ maividual contribution).	2025 January 03				
5. Requester's reference	e (if applicable):	2025 Junuary 05				
6. Choose one of the foll						
This is a comple	ete proposal:	yes				
(or) More infor	mation will be provided later:					
	-					
B. Technical – Genera	al					
1. Choose one of the foll	owing.					
	s for a new script (set of characters):	no				
	name of script:					
	for addition of character(s) to an existing b	lock:yes				
Name of th	ne existing block:	Musical Symbols Supplement				
2. Number of characters	s in proposal:	2				
	elect one from below - see section 2.2 of P&P					
A-Contemporary	x B.1-Specialized (small collection)	B.2-Specialized (large collection)				
C-Major extinct	D-Attested extinct	E-Minor extinct				
F-Archaic Hieroglyp		G-Obscure or questionable usage symbols				
	ing character names provided? es in accordance with character naming guid	delines in D&D decument Annov 12				
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5. Fonts related:	er shupes actuened in a regiote form surtuore					
	de the appropriate computerized font to the <i>Kirk Mille</i>	Project Editor of 10646 for publishing the standard?				
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):						
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6. References:						
	(to other character sets, dictionaries, descrij					
	hed examples of use (such as samples from r	newspapers, magazines, or yes				
	s) of proposed characters attached?					
7. Special encoding issu		and if applicable) such as input				
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8. Additional Information	on:					
		Properties of the proposed Character(s) or Script that				
		sing of the proposed character(s) or script. Examples of				
		ency information, Display behaviour information such a				
		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						
	mittee for inclusion in the Unicode Standard					

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.)?	yes
If YES, with whom? One of the proposers 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)	<u>music</u>
5. Are the proposed characters in current use by the user community?	yes
If YES, where? Reference: See figures	
6. After giving due considerations to the principles in the P&P document must the proposed characters be of	entirely
in the BMP?	no
If YES, is a rationale provided?	
7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?8. Can any of the proposed characters be considered a presentation form of an existing	yes
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?	no
If YES, is a rationale for its inclusion provided?	
If YES, reference:	
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? If YES, is a rationale for such use provided?	<u>no</u>
-	
If YES, reference:	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided? 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:	