L2/11-373

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

Doc Type: Working Group Document

Title: Proposal to encode Linguistic Doubt Marks in the UCS

Source: Abteilung für Griechische und Lateinische Philologie der Ludwig-Maximilians-

Universität Müchen (Department of Greek and Latin Philology, Ludwig-

Maximilians-University of Munich, Germany)

Authors: Martin Schrage, Karl Pentzlin

Status: Expert Contribution

Action: For consideration by JTC1/SC2/WG2 and UTC

Date: 2011-10-21

This document is based on an excerpt of WG2 N3913 and L2/10-358R (Proposal to encode Metrical Symbols and related characters), as it was decided to split that work and to propose the "related characters" separately by subject.

1. Introduction

In linguistic texts, there is often the request to mark the reading or interpretation of a specific character (or the sound it denotes, or any other property of it which is discussed in the text) as doubtful, either if the author doubts the reading or interpretation itself, or to mark that the author is uncertain regarding the discussed property (e.g. the pronunciation of a given grapheme). The characters marked doubtful may be letters as well as e.g. metrical symbols.

This is often expressed by a combining question mark. This can be placed above or below the affected letter, depending of typographical considerations (which in turn may depend whether the text within it occurs contains high or low modifier letters to be marked).

Therefore, both versions of the combining question mark (above and below) are proposed here.

In theory, they could be considered as glyph variant of the same underlying character. However, there is no precedent of a combining character which has no fixed placement relative to the base letter, and especially there is no combining class indicating such a placement variation. Introducing such a combining class also would mean to extend the combining rules specified in Unicode as such.

Therefore, it is appropriate to simply propose two characters here, with existing and proven combining classes.

In addition, also a free-standing superscript question mark is used.

This character especially is used in critical apparatuses. There, it is used in contrast with the common question mark, to mark different doubts on the reading (see also the detailed explanations in the figure legends of fig.1992a-VIII and 2001a-50):

- The ordinary question mark indicates doubt on the reading on the character, while the fact that the character was corrected in the source is not subject of the doubt.
- The superscript question mark indicates doubt on the properties of the indicated correction, while the reading of the character itself is not subject of the doubt.

Proposal to encode Linguistic Doubt Marks 2011-10-21

Page 1 of 11

Also, the superscript question mark is found within texts or sequences of metrical symbols themselves in contrast to the ordinary question mark, to denote similarly different scopes of doubt.

2. Proposed Characters

Annotations in parentheses address special issues for a character, or reference to figures where such special issues are discussed. (These annotations are not intended to be retained in the character list when copied into the standard.)

Block: Combining Diacritical Mark Supplement

Combining Marks for linguistic use

Block: Superscripts and Subscripts

```
?
U+209D SUPERSCRIPT QUESTION MARK

≈ <super> 003F

= doubt mark (linguistic and metrical)

(see fig. 1989a-122, 1992a-VIII, 1992a-42)
```

Properties:

3. References

```
[1896a] Thomsen, Vilh. - Inscriptions de l'Orkhon - Helsinki 1896
```

[1982a] West, M. L. - Greek Metre - Oxford 1982 - ISBN 0-19-814018-5

[1989a] Mahler, Hervicus (ed.) - Pindari Carmina cum Fragmentis, vol. II - Leipzig 1989 - ISBN 3-322-00 673-5

[1992a] West, Martin L. - Aeschyli Septem contra Thebas - Stuttgart 1992 - ISBN 3-519-01019-4

[1993a] Mastronade, Donald J. – Euripides Phoenissae. Edited with introduction and commentary. – Cambridge 1993, ISBN 0 521 41071 1

[1998a] West, Martin L. - Homeri Ilias., vol.I: rhapsodia I-XII continens - Stuttgart+Leipzig 1998 - ISBN 3-519-014301-9

[2001a] Hutchinson, G. O. - Greek Lyric Poetry - New York 2001 - ISBN 0-19-924017-5

Proposal to encode Linguistic Doubt Marks 2011-10-21

Page 2 of 11

4. Examples and Figures

The figures are numbered by the referenced work (consisting of the year of edition and the letter, as in the "references" list, followed by a hyphen the page number, and following by a second letter if more than one figure is taken from a page.

E.g.: "Fig. 1896a-109" means "See ref. [1896a], p.109").

References to already encoded characters are usually given in parentheses.

Fig. 1896a-109: Showing COMBINING QUESTION MARK BELOW below ordinary letters (purple arrow) and modifier letters (green arrows)-

<u> </u>	
vy - 'a-a-ly Sij-j- t-t-l- 'a-a-ly d-	
jadaγyn opłaju tägdi, on tutuq joryčyn jaraqłyγ äligin tutdy, jaraqłyγdy	
q ^a γ ^a nqa ^ä nč(?)–uł ^a dy. oł-süg ^a nda–joq–qyšd ^y m ^y z. bir–ot ^u z j ^a šyna	
čača sänünkä sünüšdimiz. änilki tadyqyn čuryn boz [aty, binip	
tägdi. ol-at-anda] (1,8) ölti. ikinti yšbara-jamatar boz-atyγ binip tägdi. II	E33
oł-at-anda ölti. üčinč jäginsilig-bägin kädimlig torγγ-at binip tägdi.	
oł-at-anda ölti. jaraqynda jałamasynda jüz-artuq oqun¹-urty, jäz-	
kä 2 bašyna birt[] (I,7) tägdükin türk bäglär qop	E34
bilirsiz. oł-süg anda-joq-qyšdymyz. anda-kisrä jir-bajyrqu ułuy-	
irkan jaγy-bołdy. any-jajyp türgi-jarγun költä buzdymyz. ułuγ-irkan	a 60 s
	E35
sül ^ä d ⁱ m ⁱ z. sünüg b ^a t ^y my q ^a r ^y γ sök ⁱ p ^ä n kögm ^ä n jyš ^y γ toγa joryp qyrq ^y z	
bud ^u n ^y γ uda b ^a sd ^y m ^y z, q ^a γ ^a nyn birlä sona-jyšda sün ^ü šd ⁱ m ⁱ z: kül-	
tigin bajyrqun[yn aq-adyy]r[yy] 5 (I, 5) binip opłaju tagdi, bir arig oqun	E36
¹ voir p. 14. ² ou $j_{\frac{3}{2}}^{\frac{3}{2}}$ []. ³ peut-être $azqyna$? v. p. 30. ⁴ comp. II E 26—27. ⁵ voir I E 36.	

Fig. 1982a-75: Showing a specimen for COMBINING QUESTION MARK ABOVE applied to a metrical pause symbol.

It is interesting to note a certain parallelism between the development of the strophes in O. 12 (466?) and P. 4 (462):

O. 12
$$e-D \mid |$$
 ? P. 4 $e-D \mid |$ $e-D \mid -d \mid |$ $E^2 \mid E-d \mid |$ $e-D-E-| \mid |$ $e-D-E \mid |$ $D^2 \times e - ||D-E \mid |$ $E-D^2 \mid |$ $E^2 e \mid |E-| \mid |$.

Fig. 1982a-102: Showing a specimen for COMBINING QUESTION MARK ABOVE applied to a metrical symbol.

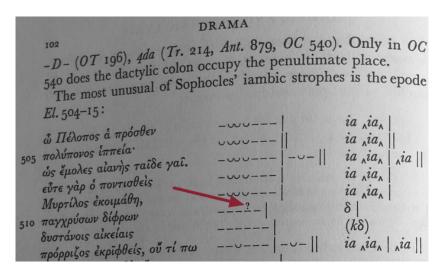
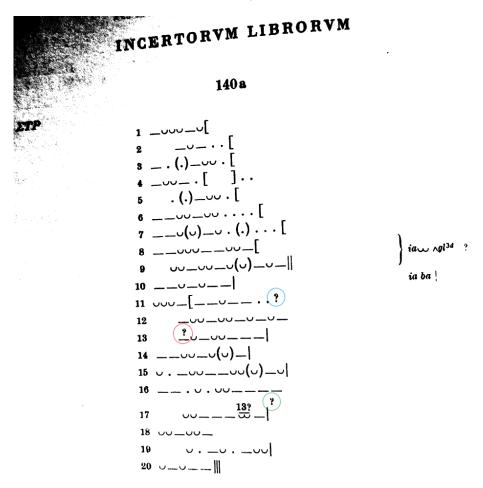


Fig. 1989a-35: Showing a specimen for COMBINING QUESTION MARK ABOVE applied to a metrical symbol.

Fig. 1989a-122: Showing specimens for COMBINING QUESTION MARK ABOVE (red) and SUPERSCRIPT QUESTION MARK (green), in contrast to a common question mark (blue).



metrum: responsiones perspexit Sn.; aut corruptela aut alia colometria vid. fuisse in v. 13

- **Fig. 1992a-VIII:** Showing specimens for SUPERSCRIPT QUESTION MARK (red), together with an ordinary question mark, explaining the different meaning of those characters when used in a critical apparatus. Right, an enlarged excerpt containing the question marks is shown. The abbreviations read:
 - A^{a?} A, fortasse ante correctionem manuscript A, the indicated reading is presumed to be the one before the correction (i.e. it is doubted that the otherwise undoubted identity of the character is in fact the one before the correction)

A^a? – fortasse A, ante correctionem – the presumed reading in manuscript A, as it was before the correction (i.e. the identity of the corrected character itself is doubted)

INDEX SIGLORVM

VIII

SIGLA CETERA

- lectio omnium codicum vel utique archetypi
 scholium vetus (Σ^x scholii lemma; Σ_I scholium in cod. I)
- Σ* scholium incertae aetatis
- commentarius paraphrasticus in triadem, saec. fere xii
- O Thomae Magistri textus
 To Triclinius in scholio suo
- A¹, A² A a prima /ab altera manu correctus
- A^a, A^c A ante/post correctionem
- A^{a?}, A^a? A, fort. a.c./fort. A a.c.
- A^{a2}, A^{a6} A ante correctionem ab altera manu/a scholiorum scriba factam
- A* A ante vel post correctionem (incertum utrum)

 Agl glossema in A, vel lectio quasi glossema adscripta
- A^γ varia lectio cum γρ. in A adscripta
- A^{mg} A in margine
- Ar A in rasura
- As A tum correctus cum scholia addita sunt
- Ass lectio in A super linear scripta
- A in textu, altera lectione inter lineas vel in
 - margine adscripta
- Aux Aut videtur

 $A^{a?}, A^{a?}$

Fig. 1992a-42: Showing SUPERSCRIPT QUESTION MARK (red) in contrast to the ordinary question mark (green).

719 ἐμφύγοις M^t : -οι fere cett. 720 ἔφριξα $B^{\gamma\rho}$, πέφριξα H^t ἀλεσί- $MBO\lambda$: οὐλεσί- H: ὀλεσι- cett. 721 post h.v. sch. ἃ γὰρ νύμτωρ παρεμελεύσατο μαὶ γέγονε in textu habent codd. praeter MKT (in mg. K) 722 παναληθῆ Ω : corr. Dind. (cf. 946) 725 βλαψίφρονος (-ας $H^{a1}N^{ss}+$) οἰδιπόδα (-ποδος V, -πόδαο $HB^{c?}V$) Ω : corr. T 726 δ' om. I^tV 727 μλήρους M^a ? Oξ: -οις cett. 728 σμυθῶν Ω : corr. Dind. T^{a2} χαὶ] ἂν μαὶ T^{a3} $T^{$

Fig. 1993a-556: Showing SUPERSCRIPT QUESTION MARK (red).

Fig. 1998a-156/157: Showing SUPERSCRIPT QUESTION MARK (red) in a critical apparatus (lower picture from p.157), in contrast to an ordinary question mark in the same apparatus (blue; upper picture from p.156).

The third picture shows the same SUPERSCRIPT QUESTION MARK from p.157 by a higher resolution.

min Ar Z Cyr Ω^* : per 404 1008 394 καί ${\rm Ar^a}$ 1008 b ${\rm F^c}$: κέν ${\rm Ar^b}$ 474c t ${\rm Z\,C^{yp}}\,\Omega^*$, κέ ${\rm F^a}$ 396 ἀυτὸς 474c 1008 h126 tt Z Ω: αὐτὸς Ernesti (cf. M 225, Ψ 480): οὐτος Wack. 398-402 damn. Koechly: t b F 397 πύλωι tamquam ('Αιδου) πύληι interpr. Ar 400 Evi Barnes: Evi (ve. 399 κῆρ h126 D B F R:κῆρ' 16 Z Ω* hab. 16 400 1008 Z Ω 402 γ' ἐτέτυκτο $Z\Omega$: γε τέτ- Ω 401 ἐπὶ (vel ἐπι) Hdn Ω: ἔπι D²? ἐνι) Hdn Ω αἰσυλοεργός Ar tt* (ad figuram cf. E 63, I 124, M 295 sq., P 5, α 299 sq.): ὀβριμοεργός 1008 ő τ' Ar h': δς 400 tt* Z Ω 404 damn. Heyne: hab. 16 400 1015 Z Eudoc. Z Ω 406 Τυδέος υίός 16 Ω: και] καίτα θυμον 474: 405 ἐπὶ Hdn Z Ω: ἔπι rr 408 τί Ar 1 w5 t Ω: τέ Ar παππάζουσιν 407 μάχηται 1 Ω*: -οιτο t b W G Eust. 410 τω D² F^x: τω(ι) 1 Ω 1 tt $Z \Omega$: [πα]παζ- h126: παμπαζ- w5

415 post 414 ferunt 1 Z Ω , ante eum 400: post 412 trai. Cobet Misc. Crit. 369: noverat 416 ὶχῶ sch 1 t B E T's W': ἰχῶρ R W' G', -ῶρ' Z F' T, Zen quoquo loco: del. Christ 417 χείρ tt Ω*: χείρ D, χείρ' $-\grave{\omega}\rho \stackrel{.}{C} \stackrel{.}{D} \stackrel{.}{F^a} G^c \quad \text{ceiròg Ar 1 Ω: ceroin Zen (cf. Σ 123)}$ 423 ἄμα σπέσθαι Plut. Z Ω: 422 ἀνιεῖσα 400 tt $Z\Omega$: ενιεισα 1.–cf. ad I 700 TaRa ἄμ' ἔσπεσθαι 1 (αμ' εσπέσθαι) t* rr.-cf. Praef. III 1 ἔκπαγλ' ἐφίλησε 1 400 t* Ω: ἔκπα-424 εὐπέπλων 400 D T R, ἐυπ- 1 h126 tt* Z Ω*: βαγλα φίλ- Plut. *h.*-cf. ad Γ 415 425 χρυσεηι 400: χρυσῆι 1 tt Z(-ση) Ω καταμύξατο Ar C T R e f: θυκόλπων Plut. κατεμ-(nov. Did) 1 400 tt $Z\Omega^*$ άραι ήν Ar Hdn ZBF^c : ἀρ-1 tt Ω^* : βαρείαν W428 οὖ τοι τέκνον χρυσῆν 1 16 1016 h126 Ω (-σὴν D): -σέην Barnes.-cf. Praef. III 10 ἐμόν Zen (οὐ τοί) 1 400 1017 tt* Ω: τέκνον ἐμόν, οὕ τοι Cic. Plut. Zenodoto contradi-434 ἀλλ' ὅγ' ἄρ W Ο: ἀλλ' 433 γινώσκων Ω: γιγν- h126 xit Hdn post Ar, v. Epm.



Fig. 2001a-50: Showing SUPERSCRIPT QUESTION MARK (red).

Here (for Bacchylides 17: carmen [canto] 3, line 9 to 14 shown in the excerpt), a manuscript "A" is considered which had been corrected by two scribes.

Thus, the critical apparatus remark for line 14 following the colon reads: φαρθι in manuscript A, »²« ab altera manu correctus (corrected by second hand) »²« fortasse (perhaps) »ac« ante correctionem (before correction): φαρθιν

- i.e.: there is a correction to $\varphi\alpha\rho\theta_I$ in the manuscript A, possibly by the second scribe, but it is doubtful that this in fact was done by the second scribe.

θρόης δε λ[αὸς ep. 1
10 ἄ τρὶς εὐδαίμ[ων
col. vii ὅς, παρὰ Ζηνὸς λαχὼν
πλείςταρχον Ἑλλάνων γέρας,
οἶδε πυργωθέντα πλοῦτον μὴ μελαμφαρέϊ κρύπτειν ςκότωι.

17. inser. (in marg.) Ίέρωνι ζυρακοςίωι ἵπποις ['Ολύ]μπια 2 (ïoι (κάρ) *cτέφανόν*) 3 (κύ) Κλεοί Blass: Κλειοί Α 4 'O-: prima syllaba $(\bar{a}c)$ uersus quarti strophae antistrophaeque in papyro semper tertium potius uersum terminat (δρό) $(i\epsilon)$ 5 $(\epsilon \hat{v})$ το e.p. (Kenyon), $\phi \hat{\epsilon} \rho o v$ το Platt, al., (ϵv) το Edmonds, quorum uerborum nullum spatio bene conuenit (όχ, acc. tum deleto, ut uid.) Νίκαι scribunt 7 τόθι] 6 Άγ]λαΐαι scribunt (ϊαι) (δίν) Palmer (μέν) 8 τ[έκος Edmonds/ςτεφάνω]ν e.p. (caι') ἀπείρων | 9 [Blass [ἀνήρ | e.p. 11 (δ) 12 (πλεί) 13 μελαμ- A^{17} pc (λη in αμ corr.): μελλη A^{18c} γέρας A Pc (corr. 12 (πλεί) i.l.): γένος Αιας 14 φαρέϊ e.p., tamquam lectionem Apc: φαρθι Az? pc: φαρθιν Aiac

ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 106461

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from http://www.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 http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

See also http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.

A. Administrative	3
-------------------	---

A. Administrative
1. Title: Proposal to encode Linguistic Doubt Marks in the UCS
2. Requester's name: Martin Schrage; Karl Pentzlin
3. Requester type (Member body/Liaison/Individual contribution): Expert Contribution
4. Submission date: 2011-10-21
5. Requester's reference (if applicable): University of Munich, Germany (M. S.)
6. Choose one of the following:
This is a complete proposal:
(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: Combining Diacritical Marks Supplement; Superscripts and Subscripts
2. Number of characters in proposal:
3. Proposed category (select one from below - see section 2.2 of P&P document):
A-Contemporary B.1-Specialized (small collection) X 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?
a. If YES, are the names in accordance with the "character naming guidelines"
in Annex L of P&P document?
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?
The authors (if requested)
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):
The authors (if requested)
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?
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)? No
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 http://www.unicode.org for such information on other scripts. Also
see http://www.unicode.org/Public/UNIDATA/UCD.html and associated Unicode Technical Reports for information
needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

Proposal to encode Linguistic Doubt Marks 2011-10-21

¹ Form number: N3702-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)

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?	Yes
If YES explain They are contained in WG2 N3913 = L2/10-358R and are separated here to	rom its revision
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 authors (M. S.) is a member of the scientific com.	munity himself
If YES, available relevant documents: See text	
3. Information on the user community for the proposed characters (for example:	
size, demographics, information technology use, or publishing use) is included?	Yes
Reference: See text	
4. The context of use for the proposed characters (type of use; common or rare)	Common
•	scientific
Reference: See text	
5. Are the proposed characters in current use by the user community?	Yes
If YES, where? Reference: See text 6. After giving due considerations to the principles in the P&P document must the proposed charact	ers be entirely
in the BMP?	Yes
If YES, is a rationale provided?	Yes
If YES, reference: To keep them in line with related character	
7. Should the proposed characters be kept together in a contiguous range (rather than being scatter	
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?	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 an existing character?	Yes
If YES, is a rationale for its inclusion provided?	Yes
If YES, reference: See text	
11. Does the proposal include use of combining characters and/or use of composite sequences?	Yes
If YES, is a rationale for such use provided?	Yes
If YES reference: See text	
Is a list of composite sequences and their corresponding glyph images (graphic symbols) prov	rided? n/a
If YES, reference: The proposal contains combining characters but no	
sequences	σοπροσιτο
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 character(s)?	No
If YES, is the equivalent corresponding unified ideographic character(s) identified?	
If VEC reference:	
II 1E3, lelelelice.	