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 additional Runic characters in the UCS

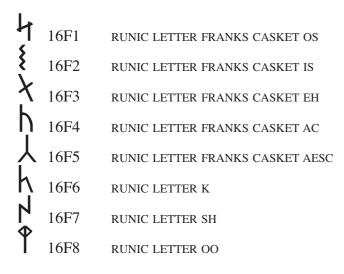
Source: Michael Everson and Andrew West

Status: Individual Contribution

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

Date: 2011-04-01

0. Introduction. A number of Runic characters should be encoded to fill gaps in the UCS. Five of them are found on the Anglo-Saxon Franks Casket, and three of them in the writings of J. R. R. Tolkien, who used Runes in some of his writings. If this proposal is accepted, the following characters will be added to the standard:



1. Anglo-Saxon runes. The Franks Casket (or Auzon Runic Casket) is a small and beautiful chest made out of whalebone and dating to 8th century England. It presents a number of carved historical scenes alongside of which are extensive texts in Runes. On the right side of the casket, which appears to be an illustration of Sigurðr who slayed the dragon Fáfnir, a set of "cryptogrammic" Runes are used for the vowels. (the ordinary rune vowels are used on the other three sides) The text on that side of the casket reads:

HXR HHH HSTLD H+ HLRMBXRXL

her hos sitæþ on hærmbergæ

hXr... MR{X{b hPL H{R{ \chi R \chi R

agl...drigiþ; swæ hiri erta egi sgraf

særden sorgæ and sefa tornæ

2. Tolkienian extensions. Although for *The Lord of the Rings* J. R. R. Tolkien devised and employed two writing systems, the featural Tengwar script and the runiform Cirth script, in *The Hobbit* and some of his other writings he made use of Old English runes. Owing to the importance of Tolkien as one of the major writers of the twentieth century and in particular to the scholarly attention given to his linguistic work, it is proposed here to add two character to the Runic block in order to enable his texts to be completely represented in the UCS.

The adaptation of the Runic alphabet Tolkien used is given here, in Latin alphabetical order (See Figure 2, 3, 4, 5).

The red characters k, k, k, and f oo are not encoded in the UCS; the blue characters k c and k, and k ee are similar to k, k, and k and k variety of texts written by Tolkien make use of these letters. The title-page text of The Hobbit reads:

PM HEBBIT ER PMRM FIM BELL FXFIF BMIX PM RMLERM EV F MYRH IETRYMM MEMM BM BILBE BFXXIFH EV HEBBITEF LEMKIRMM VREM HIH MMMEIRH BM I R R TELIMF FIM KTBLIHHMM BM XZRXM FLLMF FIM TYPIF LTM PE HOBBIT OR PERE AND BACK AGAIN BEIN PE RECORD OF A YÆRS IOURNEY MADE BY BILBO BAGGINS OF HOBBITON COMPILED FROM HIS MEMOIRS BY I R R TOLKIEN AND PUBLISHED BY GÆRGE ALLEN AND UNWIN LTD

In Thror's map the following text is given in "moon letters":

HOPEN IN IMAGEN HOPEN IN PROBLEM STAND BY PEGREY STONE HWEN PE PRUSH KNOCKS
AND THE SETTING SUN WITH THE LAST LIGHT OF DURINS
DAY WILL SHINE UPON THE KEYHOLE

As is the following note by Thrór:

ドロロ アタイ 日 X は トM MMR トトM トRタ MFM アトト ト F R M トルイ FIUE F G T HIGH P E DOR AND P R G MAY WALK ABREAST

The \mathbb{N} sh and \mathbb{Y} oo characters were used in a letter from Tolkien to Mrs Ferrer; see Figure 4.

Unicode Character Properties

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16F1; RUNIC LETTER FRANKS CASKET OS; Lo; 0; L;;;; N;;;;
16F2; RUNIC LETTER FRANKS CASKET IS; Lo; 0; L;;;; N;;;;
16F3; RUNIC LETTER FRANKS CASKET EH; Lo; 0; L;;;; N;;;;
16F4; RUNIC LETTER FRANKS CASKET AC; Lo; 0; L;;;; N;;;;
16F5; RUNIC LETTER FRANKS CASKET AESC; Lo; 0; L;;;; N;;;;
16F7; RUNIC LETTER K; Lo; 0; L;;;; N;;;;
16F8; RUNIC LETTER O0; Lo; 0; L;;;; N;;;;
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Ordering

These characters should be inserted into the unified sort order for Runic as follows:

Figures



Figure 1. The right panel of the Franks Casket, showing the cryptogrammic runes.

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along the top, down the right side, along the bottom where the
runes are upside down, and finishes going upwards on the left-
hand side. A unique feature of the inscription on this side of
the casket is its use of the following arbitrary vowel-runes:
              ha, Læ, Xe, {i, 40.
Normal vowel-runes occur only twice in the main inscription:
Me in særden, and Fa in the ligature & fa in sefa, where Napier
preferred to read sefu. In the three short words carved in runes
within the figure-panel itself, however, the normal vowel-runes
only are employed. These words will be considered later. The
main inscription reads:
            HXRHHHHITLPHYHLRMBXRXLN
  Top:
            herhossitæponhærmbergæ a
                11X
                g1 ...
  Right side: ⋈R{X{PHP }
            drigipswa
           H{R{XRThXX{4XRhF41RMMX4
 Bottom:
           hiri erta e gi s grafsærd ens
                HRXIN
                orgæa
 Left side: XM4X # 14 R X 1
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HRATE CULANIE. TOCHINING

This may be transcribed into three lines of alliterative verse:

nd sefatornæ

her hos sitæp on hærmbergæ agl.. drigip; swæ hiri erta egi sgraf, særden sorgæ and sefa tornæ.

The interpretation of these lines, however, is beset with difficulties, and a fresh study of them must be reserved for another occasion. The most plausible rendering hitherto advanced is:

Here the horse stands above the mound of woe, It suffers tribulation; just as to her Erta appointed anxiety, A grave of grief, in sorrow and anguish of heart.

Figure 2. Description of the text of the right panel of the Franks Casket from Ralph Warren Victor Elliott's *Runes: An introduction* (Manchester University Press, 1959; 2nd edition, 1989), giving a transcription and transliteration of the text.

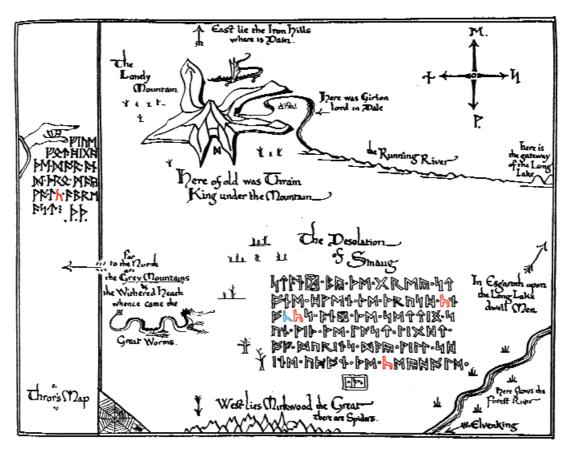


Figure 3. Thror's map showing the Tolkienian runic extensions.

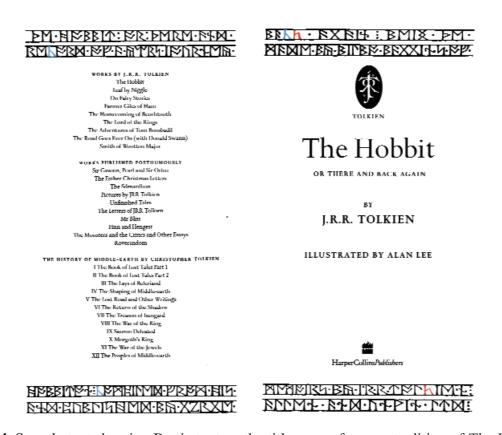


Figure 4. Sample text showing Runic text on the title page of a recent edition of *The Hobbit*.



Figure 5. Letter from J. R. R. Tolkien to Mrs Ferrer, making use of RUNIC LETTER K (contrasting with RUNIC LETTER CEN) and RUNIC LETTER SH (contrasting with RUNIC LETTER SIGEL LONG-BRANCH-SOL S) and RUNIC LETTER OO (contrasting with RUNIC LETTER OTHALAN ETHEL O).

A. Administrative

1. Title

Proposal to encode additional Runic characters in the UCS.

2. Requester's name

Michael Everson and Andrew West

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

Individual contribution.

4. Submission date

2011-04-01

5. Requester's reference (if applicable)

6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No.

B. Technical - General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

No.

Proposed name of script

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

Yes.

1c. Name of the existing block

Runic.

2. Number of characters in proposal

8

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.1.

4. Is a repertoire including character names provided?

Yes.

4a. If YES, are the names in accordance with the "character naming guidelines"

Yes.

4b. Are the character shapes attached in a legible form suitable for review?

Yes.

5. Fonts related:

5a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the standard?

Michael Everson.

5b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):

Michael Everson, Fontographer.

6. References:

6a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

(1

 $6b. \ Are \ published \ examples \ of \ use \ (such \ as \ samples \ from \ newspapers, magazines, or \ other \ sources) \ of \ proposed \ characters \ attached?$

Yes.

7. Special encoding issue: 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. Unicode character properties above.

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.

See above.

C. Technical - Justification

 $1. \ Has \ this \ proposal \ for \ addition \ of \ character(s) \ been \ submitted \ before? \ If \ YES \ explain$

No.

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. The proposers are users of the Runic script.

2a. 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?

Runologists, Anglo-Saxonists, Tolkienists.

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

Relatively rare.

4b. Reference

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

Ves

5b. If YES, where?

In texts dealing with the Franks Casket and the linguistic works of J. R. R. Tolkien.

6. After giving due considerations to the principles in the P&P document must the proposed characters be entirely in the BMP?

Yes.

6a. If YES, is a rationale provided?

Yes.

6b. If YES, reference

Contemporary use and accordance with the Roadmap.

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

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.

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?

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?