Changing Latin script r glyphs and adding their capital characters

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The representative glyphs of U+AB4B LATIN SMALL LETTER SCRIPT R (τ) and U+AB4C LATIN SMALL LETTER SCRIPT R WITH RING (τ) should be changed and characters for their capitals should be added.

Their glyphs have been created from the attested italic forms of Otto Bremer's phonetic transcription shown in L2/11-202.

However when those glyphs are in roman style, slanted, italic or other styles in many fonts, their shape is not easily identifiable compared to \mathbf{z} and \mathbf{z} shown in the source references or compared to forms used in other works.

L2/11-202		ะร
Arial	ግъ	776
Arimo	ግኄ	776
Calibri	ካቴ	7%
Times New Roman	7%	7%
Tinos	71%	76

Their representative glyphs in the Unicode charts should be modified to better guide font designers creating glyphs for these characters and for users looking for these characters.

Given L2/11-202's Bremer italic forms, proposed roman forms over time (Jespersen & Pedersen 1926, *Principles of the IPA* 1949) and the roman form used in the *Atlante linguistico italiano* (ALI), the ALI roman form is

recommended here as it looks more like the attested italic forms in German dialectology or Scandinavian dialectology:

	AB4B	AB4C	AB6C	AB6D
Current	ង	ъ		
Proposed	7	7	7	7

The top should recall the top of z which can be wavy in italic styles. The bottom of U+AB4B should turn like that of t in many styles, making the glyph similar to a short turned digit 2. In some italic or script fonts the shape of Cyrillic che U+0447 cyrillic small letter che (ч) may also be used for U+AB4B, which may be why a similar roman form was proposed at the 1925 Copenhagen Conference (Jespersen & Pedersen 1926). Similarly italic U+AB4C may have the same of U+044A cyrillic small letter hard sign (ъ). The reversed-r form was also proposed at the Copenhagen Conference and was used in Trager 1972 in reference to it..

Both letters have been used in works using uppercase and lowercase forms such as Heilig 1898, Maurmann 1898, Gerbet 1908. Characters for the capitals are proposed in the Latin Extended-E block:

7 U+AB6C LATIN CAPITAL LETTER SCRIPT R and 7 U+AB6D LATIN CAPITAL LETTER SCRIPT R WITH RING.

In Bremer italic examples, the ring of the second capital is opened and has a drop terminal instead of joining the stem. It is closed here like in the lowercase. The first capital may look like U+218A TURNED DIGIT TWO (7).

Annotations and properties

NamesLists.txt

The following annotations are recommended for NamesList.txt:

@ Letters for German dialectology
AB6C LATIN CAPITAL LETTER SCRIPT R
 * lowercase is AB4B
 x 218A TURNED DIGIT TWO
AB6D LATIN CAPITAL LETTER SCRIPT R WITH RING
 * lowercase is AB4C

The following annotations should be updated in NamesList.txt:

218A TURNED DIGIT TWO

- * digit for 10 in some duodecimal systems
- ${f x}$ AB6C LATIN CAPITAL LETTER SCRIPT R

AB4B LATIN SMALL LETTER SCRIPT R

* uppercase is AB6C

AB4C LATIN SMALL LETTER SCRIPT R WITH RING

* uppercase is AB6D

UnicodeData.txt

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AB4B; LATIN SMALL LETTER SCRIPT R; L1;0;L;;;;N;;;AB6C;;AB6C
AB4C; LATIN SMALL LETTER SCRIPT R WITH RING; L1;0;L;;;;N;;;AB6D;;AB6D
AB6C; LATIN CAPITAL LETTER SCRIPT R; Lu;0;L;;;;N;;;;AB4B;
AB6D; LATIN CAPITAL LETTER SCRIPT R WITH RING; Lu;0;L;;;;N;;;;AB6F;
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Examples

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3) Zittergeräusche: r alveolar, \tilde{r} uvular, mouilliert \hat{r}. Stimmritzen-r (§ 76,2): \tilde{v} über dem Vokal, \tilde{z}. B. plattdeutsch d\tilde{e}\tilde{e}n, d\tilde{e}\tilde{e}\tilde{n} (Dirn).
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Figure 1. Otto Bremer, *Deutsche Phonetik*, 1893 p. 204 showingLatin small letter script R with RING in italic.

§ 80. a) Mhd $\bar{o} > \bar{o}$, zB $k\bar{o}l$ m Kohl $\bar{o}ev$ n Ohr, $v\bar{o}ev$ n Rohr, $gv\bar{o}s$ gross, $gl\bar{o}s$ m Kloss, $v\bar{o}s\varepsilon$ f Rose, $v\bar{o}s\varepsilon l\varepsilon$, Dim zu Rosa, $h\bar{o}x$ hoch, $fl\bar{o}k$ m Floh, $d\bar{o}t$ tot, $n\bar{o}t$ f Not, $sv\bar{o}t$ m (mhd $schr\bar{o}t$) Reihe im Weinberg, $fv\bar{o}$ froh, $sdv\bar{o}$ Stroh.

Figure 2. Otto Heilig, *Grammatik der ostfränkischen Mundart des Taubergrundes und der Nachbarmundarten*, 1898, p. 38 showing latin small letter script R and latin capital letter script R in italic.

> -wix nach mundartlichem Kurzvokal, zB Śilbix SO, Śilwix SW Schilbach, Wolbix Wohlbach, Śæmbix S Schönbach, Brambix 'Brandbuch' > Brambach — sonst: mēwix SW Mittwoch, śnīdlix Schnittlauch, dnuswlix mehr S Knoblauch, wászixskærdsy O Weihrauchskerzen, hændśix Handschuh, vgl Zubiy Rupprecht.

β) (oben b) almis O Armbrust, keimis(d) N 'Kirchmesse',

Figure 3. Emil Gerbet, *Grammatik der Mundart des Vogtlandes*, 1908, p. 273 showing LATIN SMALL LETTER SCRIPT R and LATIN CAPITAL LETTER SCRIPT R in italic.

23. R-sounds

It seemed impracticable to provide separate signs for all variants found in existing languages, but the following were recognized as the main types:

[r], point-r, generally with trill; it is of course possible to denote variants by means of diacritics, [r] retroflex, [r] or [r] palatalized.

[ř], the Čech sibilant r-sound.

[n] (printed forms [u, 1]), various r-sounds in the back of

AND TRANSLITERATION

the mouth, but if the sound is distinctly post-velar (uvular) the letter [K] should be used in accordance with the recommendation in § 21.

Figure 4. Otto Jespersen & Holger Pedersen, *Phonetic Transcription And Transliteration, Proposals Of The Copenhagen Conference, April 1925*, 1926, p. 24-25 showing proposed printed (roman) forms of LATIN SMALL LETTER SCRIPT R.

 $\widehat{\mathbf{tf}}$, $\widehat{\mathbf{ts}}$, etc. It may also be necessary to distinguish by special letters the breathed \mathbf{l} , \mathbf{r} , \mathbf{m} , \mathbf{n} , $\mathring{\mathbf{n}}$, $\mathring{\mathbf{n}}$, occurring in Welsh, Icelandic, Bantu languages, etc. ($\mathring{\mathbf{q}}$, \mathbf{z} , \mathbf{lm} , \mathbf{n} , $\mathring{\mathbf{h}}$, have been suggested for this purpose).

Figure 5. *Principles of the International Phonetic Association*, 1912 showing a proposed roman form of LATIN SMALL LETTER SCRIPT R.

, has been proposed as a sign to denote that a stop consonant has no plosion (as in Burmese, Cantonese, etc.). x and a have been suggested as general symbols denoting any consonant or vowel respectively. π has been suggested to denote the voiceless labiodental plosive, a to denote voiceless a, b to denote voiceless a.

Figure 6. *Principles of the International Phonetic Association*, 1949 showing a proposed roman form of LATIN SMALL LETTER SCRIPT R similar to that of 1912.

(mndl. schuven) schieben, krūpa (mndl. krūpen) kriechen, šlūta (mndl. slūten) schiessen, rūka (mndl. rūken) riechen, ūra.s Uhr, šūra.s Schauer, čūra.s Ruhr, šrūta f. Truthenne.

Anm. Auffällig ist der hd. Einfluss in döuzant tausend.

Figure 6. Emil Maurmann, *Grammatik der Mundart von Mülheim A. D. Ruhr*, 1898, p. 19 showing LATIN CAPITAL LETTER SCRIPT R and LATIN SMALL LETTER SCRIPT R in italic.

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velars and postvelars: [K, G, N, R, \Gamma] = \text{respectively our } [q, G, \mathring{\mathfrak{y}}, R, \mathring{\gamma}]; glottal sounds: ['] = \text{our } [?]; [h] and [']; r-sounds: [r, \mathring{r}, \mathring{r}, \mathring{r}, R] = \text{respectively our } [r, \mathring{r}, r_y, \mathring{r}, \mathring{R}, R]; affricates: [ts], etc. = \text{our } [t^s], etc. clicks: [t^{\Delta}];
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Figure 7. George L. Trager, *Language and languages*, 1972, p. 302 showing a reversed-r form of LATIN SMALL LETTER SCRIPT R.

Konsonanter.

	Lu Næselyd	kke Mundlyd		abning bred	Side- aab- ning	Snur- ren
Læber Underlæbe	m m - n n n - n - n	<pre>p b b t d d t — t d</pre>	w h w s z ς ζ ş—	- ħ f v p ð - r - (ð)	1 l; t — l — l	R R
Fortunge Midttunge Bagtunge Tungerod Strube	— y — (y) — n	f d k g k g g	S 3	c h j x y x q r r h—	-1	r h

[I hver rubrik staar først den stemmeløse og sidst den stemte lyd.]

Figure 8. Otto Jespersen, "Danias lydskrift" in *Dania: Tidsskrift for Folkemål og Folkeminder*, vol. 1. 1890-1892, p. 40 showing LATIN SMALL LETTER SCRIPT R in italic. An additional LATIN SMALL LETTER SCRIPT R WITH LEFT TIE that is not yet encoded is shown.

- r articolazione embrionale di [r]
 [r] fricativa alveolodentale sorda
- Figure 9. *ALI* vol. 2 1996, leaflet with phonetic symbols description showing LATIN SMALL LETTER SCRIPT R.

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911 u ĭataturə

912 u ĭatatur•

913 u ĭatatóur•

914 aaddumafuok•
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Figure 10. ALI vol. 4, 1999, map 402 showing LATIN SMALL LETTER SCRIPT R.

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.

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A. Administrative				
1. Title:	Changing Latin script r glyph	s and adding their capital characters		
2. Requester's name	Den	is Moyogo Jacquerye		
3. Requester type (M	Member body/Liaison/Individual contribution):	individual		
4. Submission date:		2024 August 10		
5. Requester's refere				
6. Choose one of the				
	mplete proposal:		<u>yes</u>	
(or) More in	nformation will be provided later:			
B. Technical - Gen				
1. Choose one of the				
	sal is for a new script (set of characters):			
	sed name of script:			
	sal is for addition of character(s) to an existing to		<u>yes</u>	
	of the existing block:	Latin Extended-D		
2. Number of charac	cters in proposal:		2	
3. Proposed category	y (select one from below - see section 2.2 of P&F	P document):		
A-Contemporary	B.1-Specialized (small collection)	x B.2-Specialized (large collection	1)	
C-Major extinct	D-Attested extinct	E-Minor extinct		
F-Archaic Hierog	glyphic or Ideographic	G-Obscure or questionable usage symbol	ols	
4. Is a repertoire inc	cluding character names provided?		yes	
	the names in accordance with the "character na	aming guidelines" in Annex L of		
P&P documer			yes	
b. Are the cha	aracter shapes attached in a legible form suitabl	le for review?	_yes	
5. Fonts related:				
a. Who will pr	rovide the appropriate computerized font to the	e Project Editor of 10646 for publishing th	ne standard?	
	Denis Moyogo Jo			
b. Identify the	e party granting a license for use of the font by		ite, etc.):	
SIL (Gentium release)				
6. References:				
	nces (to other character sets, dictionaries, descri		yes	
	ned examples of use (such as samples from news	spapers, magazines, or other	yes	
sources) of pr	roposed 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 et	c. (if yes please enclose information)?	<u>no</u>	
8. Additional Inform				
	ted to provide any additional information about			
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				
	t <u>.http://www.unicode.org</u> for such information de.org/reports/tr44/) and associated Unicode T			
	<u>de.org/reports/tr44/</u>) and associated Unicode 1 e Unicode Technical Committee for inclusion in		101	
consideration by the	e officode Technical Committee for inclusion in	the officoue 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.)?	<u>no</u>			
If YES, with whom?				
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?	<u>yes</u>			
Reference:				
Reference:				
5. Are the proposed characters in current use by the user community?				
If YES, where? Reference:	<u>no</u>			
6. After giving due considerations to the principles in the P&P document must the proposed characters be				
in the BMP?	yes			
If YES, is a rationale provided?	- <u>yes</u>			
If YES, reference: casing of BMP characters				
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	<u>yes</u>			
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			
<u> </u>				
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?	<u>no</u>			
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?				
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)				
ii 1E3, describe in detail (include attachment ii necessary)				
13. Does the proposal contain any Ideographic compatibility characters?				
If YES, are the equivalent corresponding unified ideographic characters identified?				
If YES, reference:				