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(Universal Scripts Project)Status:National Body and Liaison ContributionAction:For consideration by JTC1/SC2/WG2 and UTCDate:2008-01-25

Introduction. The Old Turkic script has its roots in the Aramaic script, probably via the scripts which developed for Iranian languages. It was used in a wide area stretching across the grasslands of Mongolia, in particular concentrated near the Orkhon River in Mongolia and the Yenisei River in Siberia. Old Turkic script appears to have been put to widespread and popular use for grave stelae, border signs or graffiti of all sorts in hundreds of inscriptions in South Siberia. When, around 700 CE, the Türk founded their empire in Mongolia (which went on to conquer a vast area between China and present day Turkmenistan, all the way down to Afghanistan in the South and the Urals in the North), they needed a national script for their national monuments. The script has a number of names, which can be rendered in English as Old Turkic, Turkic Runiform, Turkic Runes, Orkhon, Yenisei. In Turkish it is sometimes called *Kök Turki* 'Old Turkic'. Resemblances to Germanic Runes are entirely superficial and accidental.

The texts found in the Orkhon River valley in the 19th century are the earliest-known examples of writing in any Turkic language. The Orkhon inscriptions date from the early 8th century CE. The inscriptions on the bank of the Orkhon river were the first to be deciphered because they are bilingual with Chinese. There are no more than 6 or 7 of them. About 50 years later the Uighur empire replaced the Türk empire, and its rulers also put up some stelae, even fewer in number, this time along the (nearby) river Selenge (also in Mongolia). Later inscriptions dating from the later 8th century occur in a variant of the script alphabet, known as Yenisei or Siberian runes, have also been found around Yenisei and other parts of Siberia. Old Turkic is used to write Iranian text in a few manuscripts.

Structure. Old Turkic writing is more-or-less alphabetic, and is inscribed from right to left in rows running from bottom to top. Modern editors use right-to-left directionality but usually set their text in rows running from top to bottom. (Boustrophedon writing is not unknown, though it is rather rare. When the writing changes direction, the letter shapes are mirrored. This happens regardless of the character's base shape; 1 U+10C00 ORKHON A appears as 1 when written in boustrophedon, and U+10C01 YENISEI A appears as 1.)

Describing Old Turkic as "more-or-less alphabetic" is more-or-less accurate. Consonants have a sort of implicit vowel associated with them; the vowel precedes as in the character names here. It also happens that a vowel *after* a letter is also implicit. But that only happens because it is implicit with reference to the *next* consonant letter. If there is no *next* consonant letter, that is, if the word ends in a vowel, it *always* is explicit. This fact is supported also by characters which appear to be ideograms: 'arrow' is /ok/ in Old Turkic, and the characters \downarrow U+10C36 ORKHON OQ and \uparrow U+10C37 YENISEI OQ have arrow shapes. /ay/ is 'moon', and \lor U+10C16 ORKHON AY looks like one; /äb/ means 'home, tent' and \$ U+10C0B ORKHON AEB

and U+10C0C YENISEI AEB have a tent shape (evidently very similar to the actual tents used in the area).

While some consonants are neutral, others are associated with either front or back vowels. In von Gabain's transcription, L¹ is written for back-vowel consonants, L² for front-vowel consonants, and L⁰ for neutral consonants (the example $\lambda \forall \delta \delta$ and $\uparrow \uparrow \forall k$ above could be transliterated as T¹B¹G¹C⁰ and T¹N¹R²I). The naming convention here writes A in front of L¹ consonants, AE (for \ddot{a}) in front of L² consonants, and E in front of neutral consonants. There are also I consonants, and O is used to represent some consonants which are either *o* or *u*; two vowel letters have the name OE which similarly represents \ddot{o} or \ddot{u} . All of this is indicative of the strength of the feature of vowel harmony in Turkic languages.

Ordering. The order of the characters in the code charts is indicative of their alphabetical order. However, since the character model for Old Turkic supports a superset of characters used in different geographic areas, about half the characters are sorted together at the first level and only differentiated for tie-breaking. This ensures that a word like $\lambda \forall \delta$, which could also be written $\lambda '_{1}' \Rightarrow$ (using all of the Yenisei letters), can be found in one place in a word-list. Superscript *y* in the list below identifies the Yenisei letters.

$$\int a \ll 1 \text{ ay} < X \text{ a} < \Gamma \text{ i} \ll 8 \text{ e} < Y \text{ o} < \Gamma \text{ o} \ll 7 \text{ ov} < S \text{ ov} < S \text{ abv} < S \text{ abv} < X \text{ adv} < X \text{ adv} < Y \text{ agv} < S \text{ agv} < S \text{ agv} < S \text{ adv} < X \text{ adv} < X \text{ adv} < X \text{ adv} < S \text{ adv} < X \text{ adv} < S \text{ adv} < Y \text{ adv} < S \text{ adv} <$$

Punctuation. The character U+205A TWO DOT PUNCTUATION is used for a variety of purposes. The actual appearance of this varies in different manuscripts and editions. Many instances of this use a much tighter form of the punctuation, with the dots closer together, as in Figures 3 and 12. The character U+2E30 RING POINT is sometimes used as a separator just as U+205A TWO DOT PUNCTUATION is, as in Figure 9.

Unicode Character Properties

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10C00;OLD TURKIC LETTER ORKHON A;Lo;0;R;;;;N;;;;
10C01;OLD TURKIC LETTER YENISEI A;Lo;0;R;;;;N;;;;
10C02;OLD TURKIC LETTER YENISEI AE;Lo;0;R;;;;N;;;;
10C03;OLD TURKIC LETTER ORKHON I;Lo;0;R;;;;N;;;;
10C04;OLD TURKIC LETTER YENISEI I;Lo;0;R;;;;N;;;;
10C05;OLD TURKIC LETTER YENISEI E;Lo;0;R;;;;N;;;;
10C06;OLD TURKIC LETTER ORKHON O;Lo;0;R;;;;N;;;;
10C07;OLD TURKIC LETTER ORKHON OE;Lo;0;R;;;;N;;;;
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10C08;OLD TURKIC LETTER YENISEI OE;Lo;0;R;;;;;N;;;;; 10C09;OLD TURKIC LETTER ORKHON AB;Lo;0;R;;;;;N;;;;; 10C0A;OLD TURKIC LETTER YENISEI AB;Lo;0;R;;;;;N;;;;; 10C0B;OLD TURKIC LETTER ORKHON AEB;Lo;0;R;;;;;N;;;;; 10C0C;OLD TURKIC LETTER YENISEI AEB;Lo;0;R;;;;;N;;;;; 10C0D;OLD TURKIC LETTER ORKHON AG;Lo;0;R;;;;;N;;;;; 10C0E;OLD TURKIC LETTER YENISEI AG;Lo;0;R;;;;;N;;;;; 10COF;OLD TURKIC LETTER ORKHON AEG;Lo;0;R;;;;;N;;;;; 10C10;OLD TURKIC LETTER YENISEI AEG;Lo;0;R;;;;;N;;;;; 10C11;OLD TURKIC LETTER ORKHON AD;Lo;0;R;;;;;N;;;;; 10C12;OLD TURKIC LETTER YENISEI AD;Lo;0;R;;;;;N;;;;; 10C13;OLD TURKIC LETTER ORKHON AED;Lo;0;R;;;;;N;;;;; 10C14;OLD TURKIC LETTER ORKHON EZ;Lo;0;R;;;;;N;;;;; 10C15;OLD TURKIC LETTER YENISEI EZ;Lo;0;R;;;;;N;;;;; 10C16;OLD TURKIC LETTER ORKHON AY;Lo;0;R;;;;;N;;;;; 10C17;OLD TURKIC LETTER YENISEI AY;Lo;0;R;;;;;N;;;;; 10C18;OLD TURKIC LETTER ORKHON AEY;Lo;0;R;;;;;N;;;;; 10C19;OLD TURKIC LETTER YENISEI AEY;Lo;0;R;;;;;N;;;;; 10C1A;OLD TURKIC LETTER ORKHON AEK;Lo;0;R;;;;;N;;;;; 10C1B;OLD TURKIC LETTER YENISEI AEK;Lo;0;R;;;;;N;;;;; 10C1C;OLD TURKIC LETTER ORKHON OK;Lo;0;R;;;;;N;;;;; 10C1D;OLD TURKIC LETTER ORKHON AL;Lo;0;R;;;;;N;;;;; 10C1E;OLD TURKIC LETTER YENISEI AL;Lo;0;R;;;;;N;;;;; 10C1F;OLD TURKIC LETTER ORKHON AEL;Lo;0;R;;;;;N;;;;; 10C20;OLD TURKIC LETTER ORKHON ELT;Lo;0;R;;;;;N;;;;; 10C21;OLD TURKIC LETTER ORKHON EM;Lo;0;R;;;;;N;;;;; 10C22;OLD TURKIC LETTER YENISEI AN;Lo;0;R;;;;;N;;;;; 10C23;OLD TURKIC LETTER ORKHON AEN;Lo;0;R;;;;;N;;;;; 10C24;OLD TURKIC LETTER YENISEI AEN;Lo;0;R;;;;;N;;;;; 10C25;OLD TURKIC LETTER ORKHON ENT;Lo;0;R;;;;;N;;;;; 10C26;OLD TURKIC LETTER ORKHON ENC;Lo;0;R;;;;;N;;;;; 10C27;OLD TURKIC LETTER YENISEI ENC;Lo;0;R;;;;;N;;;;; 10C28;OLD TURKIC LETTER ORKHON ENY;Lo;0;R;;;;;N;;;;; 10C29;OLD TURKIC LETTER YENISEI ENY;Lo;0;R;;;;;N;;;;; 10C2A;OLD TURKIC LETTER YENISEI ANG;Lo;0;R;;;;;N;;;;; 10C2B;OLD TURKIC LETTER ORKHON ENG;Lo;0;R;;;;;N;;;;; 10C2C;OLD TURKIC LETTER YENISEI ENG;Lo;0;R;;;;;N;;;;; 10C2D;OLD TURKIC LETTER ORKHON EP;Lo;0;R;;;;;N;;;;; 10C2E;OLD TURKIC LETTER ORKHON OC;Lo;0;R;;;;;N;;;;; 10C2F;OLD TURKIC LETTER ORKHON IC;Lo;0;R;;;;;N;;;;; 10C30;OLD TURKIC LETTER ORKHON EC;Lo;0;R;;;;;N;;;;; 10C31;OLD TURKIC LETTER YENISEI EC;Lo;0;R;;;;;N;;;;; 10C32;OLD TURKIC LETTER ORKHON AQ;Lo;0;R;;;;;N;;;;; 10C33;OLD TURKIC LETTER YENISEI AQ;Lo;0;R;;;;;N;;;;; 10C34;OLD TURKIC LETTER ORKHON IQ;Lo;0;R;;;;;N;;;;; 10C35;OLD TURKIC LETTER YENISEI IQ;Lo;0;R;;;;;N;;;;; 10C36;OLD TURKIC LETTER ORKHON OQ;Lo;0;R;;;;;N;;;;; 10C37;OLD TURKIC LETTER YENISEI OQ;Lo;0;R;;;;;N;;;;; 10C38;OLD TURKIC LETTER ORKHON AR;Lo;0;R;;;;;N;;;;; 10C39;OLD TURKIC LETTER YENISEI AR;Lo;0;R;;;;;N;;;;; 10C3A;OLD TURKIC LETTER ORKHON AER;Lo;0;R;;;;;N;;;;; 10C3B;OLD TURKIC LETTER ORKHON AS;Lo;0;R;;;;;N;;;;; 10C3C;OLD TURKIC LETTER ORKHON AES;Lo;0;R;;;;N;;;;; 10C3D;OLD TURKIC LETTER ORKHON ASH;Lo;0;R;;;;;N;;;;; 10C3E;OLD TURKIC LETTER YENISEI ASH;Lo;0;R;;;;;N;;;;; 10C3F;OLD TURKIC LETTER ORKHON ESH;Lo;0;R;;;;;N;;;;; 10C40;OLD TURKIC LETTER YENISEI ESH;Lo;0;R;;;;;N;;;;; 10C41;OLD TURKIC LETTER ORKHON AT;Lo;0;R;;;;;N;;;;; 10C42;OLD TURKIC LETTER YENISEI AT;Lo;0;R;;;;;N;;;;; 10C43;OLD TURKIC LETTER ORKHON AET;Lo;0;R;;;;;N;;;;; 10C44;OLD TURKIC LETTER YENISEI AET;Lo;0;R;;;;;N;;;;; 10C45;OLD TURKIC LETTER ORKHON OT;Lo;0;R;;;;;N;;;;; 10C46;OLD TURKIC LETTER ORKHON BASH;Lo;0;R;;;;;N;;;;;

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Figures

The characters of the old Turkic script are stable in form. Some of them, however, have varieties which slightly differ from each other.

The characters are given in the following table.

Characters	Transliteration	Transcription
1	a	<u>a, ä</u>
1	i	<u>i, ï</u>
>}	u	<u>u</u> , <u>o</u>
74	ü	<u>ü</u> , <u>ö</u>
(Т, КČ ل)	b ¹	<u>ab</u> , <u>b</u>
XI (T, O, KČ)) b ²	<u>äb</u> , b
 (т, кč J) (т, о, кč Д (кč ³) 	d ¹	ad, d
X	d^2	<u>äd</u> , <u>d</u>
)((T 11))	γ	<u>ay</u> , <u>y</u>
€ 10€) HH (T. 0, , KČ	g	äg, g
Kh	, q	aq, q
(т, о), кč	() k	äk, k
1	11	<u>al</u> , <u>1</u>
Y	1 ²	<u>äl</u> , <u>1</u>
	n^1	an, n
MITHM. KČI	n^2	<u>än, n</u>
44	r ¹	ar, r
γ	r ²	är, r
ЧЧ У (Т???), КС 2-) s ¹	<u>as, s</u>

Characters of the Old Turkic Alphabet

Figure 1a. Table of Old Turkic letters, from Tekin1968.

Characters	Transliteration	Transcription
1	s²	<u>ās, s</u>
👌 (т, о, кё 🖯, о	\tilde{O} t ¹	<u>at, t</u>
hh	t ²	ät, t
D	y ¹	<u>ay</u> , y
) (тЧ, оч, кč ↓ Г (т, оВ,кč Я)	y² y²	<u>äy</u> , <u>y</u>
V	ą	<u>oq, uq, qo, qu, q</u>
Г (т, oB, kč R)	8	<u>ök, ük, kö, kü, k</u>
	1 q	<u>ïq, qï, q</u>
*	ič	ič
$\mathbf{\lambda}$	č	<u>ač, ač, č</u>
≫ (T>>)	m	<u>am, äm, m</u>
3	ń	<u>ań, äń, ń</u>
 ↑ ↓ (т.)) ↓ ↓<td>ŋ</td><td><u>aŋ, äŋ, ŋ</u></td>	ŋ	<u>aŋ, äŋ, ŋ</u>
1	. P	<u>ap, äp, p</u>
¥	ŝ	<u>as, äš, š</u>
H (т. 0, кč H)	z	<u>az, äz, z</u>
M	lt	alt, lt
M	nč	anč, anč, nč
(́) (Т (), О [©] , КČ	()) <u>nt</u>	ant, ant, nt
1	aš	aš
\bowtie	baš	baš ²

² Apart from the letters discussed above and given in the table, the following signs occur in the Uigur and

Figure 1b. Table of Old Turkic letters, from Tekin1968.

1.12. Origin of the Alphabet

Various theories have so far been put forward on the srigin of the Turkic 'runic' script. Otto Donner, still before the script was deciphered, drew attention to the general conformity between the characters of the Yenisei script, that is, the Turkic 'runic' script, and the Lycian and Carian alphabets of Asia Minor of the antiquity, and assumed that the Yenisei script might have been derived from these alphabets.³ Thomsen, who deciphered the Turkic 'runic' script, did not accept this assumption and put forward the theory that the Turkic alphabet was derived from the late Semitic (Aramaic) alphabet, with or without in Iranian intermediary.⁴ Aristov and Mallitskiy suggested that the letters of the Turkic 'runic' script might have been developed from the Turkic <u>tamgas</u>.⁵ According to Polivanov,

Tenisei inscriptions, and in the manuscripts found in **Eastern** Turkestan: $\Upsilon = s^1$ (in back-vocalic words), $\Upsilon =$ **closed** e), \diamondsuit , $\bigcirc = q^1$, β , $\beta = up$ (in the manuscripts), $\swarrow =$ ot (in <u>Irq Bitig</u>), $\land = \underline{s}$.

³ Inscriptions de l'Orkhon, p. XLXXX ff.

⁴ Inscriptions de l'Orkhon déchiffrées, p. 44. ff.

⁵ N. N. Aristov, 'Zametki ob etničeskom sostave **Parkskix** plemen i narodov,' in: <u>Živaya Starina</u> III-IV, **1896** (I quote this from A. Caferoğlu, <u>Türk Dili Tarihi</u> I, **Man**bul 1958, p. 115).

N. G. Mallitskiy, 'O svyazi tyurkskix tamga s orxonmimi pismenami,' in: <u>Protok. sozed. i soobšč. Turkes-</u> mekogo kružka lyub. arxeologii, 1897-1898 (Quoted from A. Caferoğlu, <u>Türk Dili Tarihi</u> I, İstanbul 1958, p. 115].

Figure 1c. Notes on additional Old Turkic letters, from Tekin1968.

Orchon I, 11 {0, T}	Orchon III [Hss.]	Jenissei (Ta)	Orchon I, Il Orchon III Jenissei [O, T] [Hss.] [Ta]
a=ä \$	=[= J]	=1 ∑ ; oder 1 <i>a</i> , X <i>ä</i>	^{2}n H = [= H] = $\mathcal{J}' H' \mathcal{J} H H' \mathcal{J}'$
e t	-	ž	${}^{0}y \mathbf{Y} [=\mathbf{y}] \text{and} \mathbf{Y}^{2}y$
i=i t 0=u > }	= [= ʃ] = [= 🍃]	1.,.	⁰ny) = 为 [= 为] -;XXXVII€
ö=u Ņ M			${}^{0}n\ddot{c}_{=}{}^{0}n\ddot{g} \ge [OT] = [=] = ? ? ? ? ?$
	= [=D]	= 0 0	⁰ nt [*] ♥ [O �; = ⁰ nd T ⊙] ♥[=] -
² y 9[=9] ¹ bJJS[=8]		=P	$^{\circ}p$ 1 = =
			op=up [15) ,]
		= λ	N= [], N h P ¹
ic = iğ ¥	=[= 人] [=]	= ^ [=]	$iq = qi \in [0]$ - $[=]$ -; XXXVII
1d \$	=	= 27 33	$\begin{array}{c} oq = uq \\ = qo = qu \end{array} \downarrow -[=\downarrow] \uparrow$
² d ×	=[=+]		¹ у Ц =
¹ γ ¥ [Τ' ']		<u> የተቀንረንና ዋ</u>	²ァ ↑ =[=† ፓክ ታ]=
²g €[0€] ²k ₹	うで で= =>[ぞう		¹ 8
ök = ük = kö= kü fi R	• •	B B	² 8 = [= j] =
4 1	8	=~	% I¥[ŸŸ] =¥[=≯] ↑ ₩ "∧ □ □ □ I
21 Y	=[=Ƴ]	•	¹ t ^{\$[0} ð ; OT ô] ô ô[=⊗] ⊗[≫]
old = olt ■	[=]	- XXXIII, XXXVII	ot=ut [A]
⁰m ≯[0×)]	={= } }	=[¤ o]	² thh = = -1
¹ n)	â	e	⁰≈ሰ″ሰሦኑ[₩] ኑ[=ሰሃ¥ን] ኁና≹ኑ

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Figure 2. Table of Old Turkic letters in Orkhon and Yenisei, taken from von Gabain 1941. This summary table is the source for the inherent vowel quality taken for the character names. It contains all of the characters in the proposal.

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Figure 3. Sample of Old Turkic text from a manuscript, taken from von Gabain 1941.

Figure 4. Sample of Old Turkic text.

Nº	ھەرپلەر	ئوقۇلۇشى	Nº	ھەرپلەر	ئوقۇلۇشى
1	↓ 1 X	ئې∕ئا a∥/e	21	~~ ~ ~	ن يۇمشاق n
2	1 T K	ئى/ئە ə//i	22	444	ر قاتتىق r
3	> >	ئۇ/ئو o///u	23	Υ	ر يۇمشاق r
4	NNY	ىۋ/ئۆ Ø∥y	24		ل قاتتىق ا
5	N N	ق قاتتىق q	25	Y	ل يؤمشاق ا
6	۵ ک	ق ډ بىلەن كېلىدۇ q	26	8	س قاتتىق s
7	↓ ↑	o//u بىلەن كېلىدۇ ق q	27	1	س يۇمشاق s
8	446	ن يۇمشاق k	28	3	دىماق تاۋۇشى
9	Fi B 8	k بىلەن كېلىدۇ ك ∦	29	1	p 🤟
10	3° 1 1 1 2 2	غ قاتتىق كا	30	N r y	ற பே
11	£ 1	ت يۇمشاق g	31	* 3	m r
12	♣ ☆ ∩ ↑	ت قاتتىق t	32	$\lambda \land \lambda$	t∫ Ę
13	hhh	ت يۇمشاق t	33	¥	ئىچ ∫it
14	⅔ ೫ 33	د قاتتىق d	34	¥ 19 1910	ش ∫
15	X X	د يۇمشاق d	35	4458	z j
16	3 99	ب قاتتىق b	36	M	لت lt ///ld
17	X X X	ب يۇمشاق b	37	🕑 © © 0	نت nt//nd
18	DOD	ي قاتتىق ز	38	3	نەت nt∥nət
19	9 P	ي يۇمشاق ز	39	M	وت rt
20)	ن قاتتىق n	40	:	ئايرىش بەلگىسى

ئورقۇن-يېنىسەي يېزىقىنىڭ ئېلىپبەسى

Figure 5. Table of Old Turkic characters from an Uighur source.

_		54		-			
N₂	تەلەپبۇ زى	ئورغۇن	يېنسەي	N٩	تەلەپ پۇزى	ئورغۇن	يېنسەي
1	A.ə	1	1 X I	21	ny	3	٤
2	i.ĭ	1	•	22	ng	ł	٢
3	o,u	>>}		23	n')	
4	ө,ü	2 4	۲	24	n²	ት	2 4
5	ĸ	μk		25	m	≫	
6	K K	٩	ЪХ	26	r'	Ч	44
7	0қ.uқ Қо.қи	¥	↑	27	r²	$\boldsymbol{\uparrow}$	
8	9	2	ባי <u>የ</u> ¥ፕ	28	1'	1	~
9	к	F	99	29	12	Y	
10	0k,ük K0,kü	Fi	В	30	9	Y	λ
11	8	6	6 6 5	31	iq	Ψ.	
12	f,	\$ \$ 6	â \$	32	s'	5	
13	ť	hh		33	S²	1	
14	ď	<u>}</u> }	▓(⊙ �)	34	×	¥	メモメシ
15	d²	X		35	Z	н н	<i>ዝ \$ \$</i> የ
16	Ρ	1		36	nt	<u>ت</u>	0
17	Ъ	6	1920	37	nq	3	2313
18	b²	\$¥	含久	38	1t	M	
19	Υ'	D	00	39	ax	I	
20	У²	9	P (P)	40	bax	\bowtie	
-				-			

قەدىمكىتۈرك (ئورخۇن) يېزىقىنىڭ ئېلېپبەسى

Figure 6. Table of Old Turkic characters from an Uighur source.

RÜNİK TÜRK ALFABESİ

				-	and the second se
ORHUN	ORH.	YENISEY	ORHUN	ORH	YENISEY
Ι,Π	ш		• І,П	ш	
5 a,e 1 v,i 27 o,u 17 o,u 17 o,u 17 o,u	4	μ Γ 1 χ(δ=ε)	ショットション		ኖ (P) (፪ xxxvii) የ የ
 <i>k</i> (<i>i</i>-dan evelve sora gelir.) <i>k</i> (0, <i>a</i>-dan evelve sora 		(♪xxxv1) ↑	እን ም ዛ ጉ ጥ ບ		ה ~ ק ק
γ g β β k R kiō, ü-den evel ve sma	?	⊪ ኡ ኡ ኍ ን ነ ₿	J C Y C J ç		×
gelic, Eğ St hht	ôô	` ¢ € ₹ `	¥ iç X o I o		
» d × d 1 ℓ		X }\@ \$\	ዚዝ≭ ¥१	۴ ۴	¥ ₩4∧nose 4 88885
5 ¢ 8 & t D y	ති	かっつ 今 の	ind Ind Mld	0	0

Figure 7. Table of Old Turkic letters showing Orkhon and Yenisei varieties, from "Iski Türk Yazitlari", Yusayin Namiq Orqun, Istanbul.

Начертание	Значение		Начертанис	Значение	
	руссы.	.3hr.		русск.	.131.
51X8	a, ä	a, ä	3	Ĥ	ñ
3	6.1	Ъ٦	⊍⊙⊙ė⊗	нт	nt
**1	6°, ä	b", ä	3	нч	nč
<u>ኛ</u> ሞን,ርኡር	r;	7	>>	o, y	0, 1
23	г	g	ЧИЧ	ö, ÿ	ö, i
₩33.22	A	\mathbf{d}^{1}	1	п	р
×	Λ1	d =	чч	p ¹	r ¹
ዛ ዙ ቶ ቶ ቶ	а	z	Ŷ	р ²	r ³
11	ы, і	y, i	×	c 1	51
D	j?	j', ī	1	c ²	s ¹
9	j ^a	j², ĩ	\$ ≈	T	t1
440011	k	q	h	T ²	t
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)	H	n ¹			
ት <mark>ቶ</mark> ኢ	н2	n 2			
11	ų	ŋ			

ДРЕВНЕТЮРКСКИЙ РУНИЧЕСКИЙ (АЛФАВИТ

Figure 8. Table of the "Old Turkic Runic Alphabet", from Малов 1951.

6 0000 0000 000 00 ロッグ」合っ下」「 07 47 º 0-5254=71 STOLLA LOK TETHOD: 52074001 4:441.0212 HHO Y MIO JA 985+7:254 0下学:7月合70 = F) F 7= 3 J D の丁そのが方の *= アリングア 6 1=157737 17:NEX

Figure 9. An Old Turkic manuscript.



Figure 10. Monument with an Old Turkic inscription



Figure 11. Old Turkic monuments.

-5.602 28:9221 BOR BOR 100.0 A Cil Mao, 010,2 1.9.1 T BL ALLCORS 121 R 42. 82. U.S.S. LANS : S > SILLEY 七零里 4 R. 2. 1.2 2 8.2.3.84 cms. 2 3 | 4 5 I

Figure 12. An Old Turkic manuscript.

1h1H31: INYX&\\: 1<\YYH<: 1&\YKh1: INYX &\: FN3&\: 101 : 10

- (41) N人NH: \$1\\\L2: \Children Children Child

Памятник хану Могиляни

иғ¥иҮнҲ1: ѾъқнтҰҰн1: Ѿъ; ѽ<

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Памятники рунического письма Монголии VII-VIII вв.

14

(0b) ?h+1 : h11 : h11 Y1 : FYH1 : h%Hh(P14(%1) : 1
(0b) ?h+1 : P11 : 2
(0b) ?h+1 : P11 : 2
(1c) Q10
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Figure 13. Selections from several different editions of Old Turkic texts.

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A. Administrative

Title
 Proposal for encoding the Old Turkic script in the BMP of the UCS
 Requester's name
 China, Ireland, the UK, and UC Berkeley Script Encoding Initiative (Universal Scripts Project)
 Requester type (Member body/Liaison/Individual contribution)
 National Body and Liaison contribution.
 Submission date
 2008-01-25
 Requester's reference (if applicable)
 Choose one of the following:
 This is a complete proposal
 No.
 More information will be provided later

B. Technical – General

1. Choose one of the following:

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

Yes.

Yes.

1b. Proposed name of script

Old Turkic.

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

No.

1d. Name of the existing block

2. Number of characters in proposal

71.

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 E. 4a. Is a repertoire including character names provided?

Yes.

4b. If YES, are the names in accordance with the "character naming guidelines" in Annex L of P&P document?

Yes.

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

Yes.

5a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard? **Wushour Silamu and Michael Everson.**

5b. If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate the tools used:

Wushour Silamu and Michael Everson, Fontographer.

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

Yes.

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

7. 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. 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 Unicode Character Database http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

See above.

C. Technical – Justification

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

No.

2a. 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.

2b. If YES, with whom?

Experts at Xinjiang University and Xinjiang Museum in China, Marcel Erdal (France), Mehmet Olmez (Turkey)

2c. 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?

Turkologists and other scholars.

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

Rare; historical use.

4b. Reference

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

Yes.

5b. If YES, where?

Scholarly and popular publications.

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

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

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 (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?

No.

11b. If YES, is a rationale for such use provided?

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?

Old Turkic

	10C0	10C1	10C2	10C3	10C4
0	1	£ 10C10	M 10C20	人 10C30	Y
1	10C00 L 10C01	10010	10C20	λ 10C31	10C40
2	X 10C02	X 10C12)	H 10C32	10C42
3	L 10C03	10C13	H 10C23	Р 10С33	h 10C43
4	10C04	1 0C14	1 0C24	A 10C34	Ч 10С44
5	X	Ч	(;;) 10C25	Þ	പ്
6	10C05	10C15	≯	10C35	10C45
7	10C06	10C16	10C26	10C36	10C46
8	10C07	10C17	10C27	10C37	
9	<u>10008</u>	10C18	10C28	10C38	
A	10C09	10C19	10C29	10C39	
В	10C0A	10C1A	10C2A	10C3A	
С	10С0В	<u>10С1В</u>	10C2B	10C3B	
D	10C0C	10C1C	10C2C	10C3C	
		10C1D	10C2D	10C3D	
E	10C0E	V 10C1E	F 10C2E	10C3E	
F	€ 10C0F	Y 10C1F	Y 10C2F	¥ 10C3F	

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Vowels

10C00	1	OLD TURKIC LETTER ORKHON A
10C01	1	OLD TURKIC LETTER YENISEI A
10C02	χ	OLD TURKIC LETTER YENISEI AE
10C03	1	OLD TURKIC LETTER ORKHON I
10C04	٢	OLD TURKIC LETTER YENISEI I
10C05	Ž	OLD TURKIC LETTER YENISEI E
10C06	Y	OLD TURKIC LETTER ORKHON O
10C07	۲	OLD TURKIC LETTER ORKHON OE
10C08	۲	OLD TURKIC LETTER YENISEI OE

Consonants

0011	501	lanto
10C09	გ	OLD TURKIC LETTER ORKHON AB
10C0A	ク	OLD TURKIC LETTER YENISEI AB
10C0B	\$	OLD TURKIC LETTER ORKHON AEB
10C0C	ጵ	OLD TURKIC LETTER YENISEI AEB
10C0D	γ	OLD TURKIC LETTER ORKHON AG
10C0E	ų	OLD TURKIC LETTER YENISEI AG
10C0F	6	OLD TURKIC LETTER ORKHON AEG
10C10	ſ	OLD TURKIC LETTER YENISEI AEG
10C11	*	OLD TURKIC LETTER ORKHON AD
10C12	*	OLD TURKIC LETTER YENISEI AD
10C13	x	OLD TURKIC LETTER ORKHON AED
10C14	цц.	OLD TURKIC LETTER ORKHON EZ
10C15	н.	OLD TURKIC LETTER YENISEI EZ
10C16	D	OLD TURKIC LETTER ORKHON AY
10C17	ó	OLD TURKIC LETTER YENISEI AY
10C17	2	OLD TURKIC LETTER ORKHON AEY
10C18	P	OLD TURKIC LETTER VENISEI AEY
10C1A	٦ 、	OLD TURKIC LETTER ORKHON AEK
10C1B	Ŷ	OLD TURKIC LETTER YENISEI AEK
10C1C	B	OLD TURKIC LETTER ORKHON OK
10C1D	1	OLD TURKIC LETTER ORKHON AL
10C1E	V	OLD TURKIC LETTER YENISEI AL
10C1F	Y	OLD TURKIC LETTER ORKHON AEL
10C20	Μ	OLD TURKIC LETTER ORKHON ELT
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10C22)	OLD TURKIC LETTER ORKHON AN
10C23	Ч	OLD TURKIC LETTER ORKHON AEN
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10C26	3	OLD TURKIC LETTER ORKHON ENC
10C27	X	OLD TURKIC LETTER YENISEI ENC
10C28	3	OLD TURKIC LETTER ORKHON ENY
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10C2A	\diamond	OLD TURKIC LETTER YENISEI ANG
10C2B	4	OLD TURKIC LETTER ORKHON ENG
10C2C	ŀ	OLD TURKIC LETTER YENISEI ENG
10C2D		OLD TURKIC LETTER ORKHON EP
10C2E	ĥ	OLD TURKIC LETTER ORKHON OP
10C2F	Ϋ́	OLD TURKIC LETTER ORKHON IC
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10C31		OLD TURKIC LETTER YENISEI EC
	h	OLD TURKIC LETTER ORKHON AQ
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10C35	⊳	OLD TURKIC LETTER YENISEI IQ
10C36	↓	OLD TURKIC LETTER ORKHON OQ
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10C3F	¥	OLD TURKIC LETTER ORKHON ESH
10C40	۲	OLD TURKIC LETTER YENISEI ESH
10C41	\$	OLD TURKIC LETTER ORKHON AT
10C42	\$	OLD TURKIC LETTER YENISEI AT
10C43	h	OLD TURKIC LETTER ORKHON AET
10C44	٩	OLD TURKIC LETTER YENISEI AET
10C45	റ്	OLD TURKIC LETTER ORKHON OT

10C46 M OLD TURKIC LETTER ORKHON BASH