

Title: Preliminary Proposal to Encode the Soyombo Script in ISO/IEC 10646
Author: Anshuman Pandey (pandey@umich.edu)
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1 Introduction

A request to include the Soyombo script in the Universal Character Set (ISO/IEC 10646) was made by the Mongolia and Japan national bodies in September 1998 (WG2 N1855 L2/98-358). A status update for the request was provided in January 2000 by Takayuki K. Sato (Japan), who stated that the project for Soyombo was stalled due to funding issues (WG2 N2163 L2/00-055). The script was allocated to the Roadmap to the SMP in WG2 Meeting 38 in March 2000 (WG2 N2203 L2/00-234). It appears that no progress has been made on an encoding for Soyombo since that time; N2163 is the last document on record for the script.

The present document is a preliminary proposal to encode Soyombo in the UCS. It provides a tentative code chart, names list, and character properties for Soyombo, as well as a few specimens of the script. The suggested character repertoire and names are fairly similar to those proposed in N1855, but this document offers new names for certain characters (see Section 6). Additional details on the background and implementation of the script will be provided later. Comments are requested and may be submitted to the author at the email address given above. Any information regarding Soyombo is welcome.

The Soyombo font used here is based upon the font developed by Oliver Corff in August 1996 for his “Soyombo for L^AT_EX” package. Some modifications have been made to Corff’s font and new glyphs added by the present author. A new font is being developed to accompany the formal proposal to encode Soyombo.

2 Background

Soyombo (Mongolian: Соёмбо бичиг *soyombo bicig*) is a script used for writing Mongolian, Sanskrit, and Tibetan. It was used mainly for producing ornamental Buddhist texts.¹ Soyombo was developed in 1868 by Zanabazar (1635–1723), the first spiritual leader of Tibetan Buddhism in Mongolia, who also developed the Xäwtää Dörböljin (Horizontal Square) script.² The name *soyombo* (ሟዬሙ) is derived from Sanskrit स्वयंभु *svayambhu*, meaning ‘self-existing’.

There are several documents written in Soyombo, which consist mostly of manuscripts, such as that shown in Figure 10. Soyombo is described in many secondary sources, such as studies of Mongolian scripts, eg. Boldsaikhan, et al. (2005), Shagdarsürüng (2001), etc. Soyombo is currently in use, as attested by a poem that was recently typeset using a digitized font (see Figure 6).

¹ Atwood 2004: 518.

² See Pandey 2010 (N3956 L2/10-411).

3 Writing System

3.1 Structure

Soyombo is an alphasyllbaric and is based upon the Brahmi model. Consonant letters have the inherent vowel *a*. There are contextual forms for some consonant letters that are used for representing codas. Vowels have independent and dependent forms. Consonant-vowel combinations are written using dependent forms of vowels.

The graphical structure for characters is ‘two-dimensional, not linear’ (see Figure 4).³ Vowel signs are written above the consonant letter, eg. ; inside the frame, below the base element of the letter, eg. ; attached to the frame, eg. ; or to the right, eg. . Final consonants are written as combining signs inside the frame of the letter, eg. . Consonant conjuncts are represented similarly. Reduced forms of the second consonant in a conjunct are written inside the frame of the initial consonant letter.

3.2 Vowels

The basic set of vowel letters is:

A	AA	I	II	UE	UUE	U	UU	E	EE	O	OO	OE	OOE	AU	AI

These letters are composed using the vowel letter and a unique vowel sign:

-A	-AA	-I	-II	-UE	-UUE	-U	-UU	-E	-EE	-O	-OO	-OE	-OOE	-AU	-AI

As shown, vowel length is indicated by writing the mark (-AA) with the basic vowel sign.

There are additional vowel letters used for writing Sanskrit. These are the vocalic letters:

R	RR	L	LL

They are composed in the same manner as the other independent vowel letters:

-R	-RR	-L	-LL

There is an additional vowel letter used for writing Tibetan:

-A

The dependent signs and are sometimes used for representing *u* and *ī*, respectively. They are combined with the signs and as follows:

³ Corff 1996: 1.

ᠶ
ᠶ
ᠶ
ᠶ

-u -u -ī -ī

It may be necessary to encode these forms separately.

3.3 Consonant Letters

Basic consonant letters:

ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠶ	ᠷ	ᠸ	ᠹ
GA	KA	NGA	JA	CA	NYA	DA	TA	NA	BA
ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠶ	ᠷ	ᠸ	ᠹ
PA	MA	YA	RA	WA	LA	SHA	SA	HA	KSSA

Although it is a conjunct, the letter ᠹ KSSA appears in Soyombo charts at the end of the basic consonants.

Additional consonant letters used for writing Sanskrit are shown below. The names for these characters begin with GALIG, eg. SOYOMBO LETTER GALIG G:

ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠱ	ᠳ	ᠴ	ᠵ
GA	GHA	JA	JHA	TTA	TTHA	DDA	DDHA	NNA	DA	DHA	BA	BHA	SSA	

Other consonant letters, presumably for writing Tibetan:

ᠶ	ᠱ	ᠳ	ᠴ	ᠵ
TSA	TSWA	DZA	ZHA	ZA

3.4 Final Consonant Signs

These characters represent codas:

ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠱ	ᠳ	ᠴ	ᠵ
-G	-K	-NG	-D	-N	-B	-M	-R	-L	-SH	-S	-ANG			

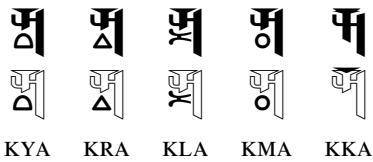
3.5 Consonant Conjuncts

Consonant conjuncts are written using ligatures and half forms or reduced forms. There is no VIRAMA in Soyombo. The second consonant of a conjunct is written as a reduced form within the frame of the initial consonant letter.

Some consonant conjuncts are included in the traditional Soyombo character inventory:

ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠱ	ᠳ	ᠴ	ᠵ	ᠶ	ᠱ	ᠳ	ᠴ	ᠵ
KYA	KRA	KLA	KMA	KKAA	NGKA	NYCA	NNTTA	NTA	MPA	LKA	SHKA	SKA	RKA	

Some of these appear to be atomic ligatures, eg. NNTTA, while others may be analyzed as being composed of a base letter and a reduced form:



It appears that the sub-joining form of MA is similar to that of WA: , eg. swa (SA + WA).

3.6 Various Signs

- ANUSVARA: ; eg. om.
- VISARGA:

3.7 Punctuation

- DANDA | and DOUBLE DANDA ||
- WORD SEPARATOR: ▾

3.8 Symbols

The following two symbols are part of the Soyombo script. They are used in script charts.

- SOYOMBO SYMBOL INITIAL:
- SOYOMBO SYMBOL TERMINAL:

The symbol is written before the first letter of the script and after the last.

The following symbol was developed by Zanabazar, the creator of the script:

- SOYOMBO SYMBOL:

It is an officially-recognized symbol in Mongolia and appears on the flag of Mongolia (see Figure 11) and coat of arms (see Figure 12). It is not part of the script, but it should be included in the Soyombo block.

4 Character Properties

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11840;SOYOMBO LETTER A;Lo;0;L;;;;N;;;;;
11841;SOYOMBO LETTER AA;Lo;0;L;;;;N;;;;;
11842;SOYOMBO LETTER I;Lo;0;L;;;;N;;;;;
11843;SOYOMBO LETTER II;Lo;0;L;;;;N;;;;;
11844;SOYOMBO LETTER UE;Lo;0;L;;;;N;;;;;
11845;SOYOMBO LETTER UUE;Lo;0;L;;;;N;;;;;
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11846;SOYOMBO LETTER U;Lo;0;L;;;;N;;;;
 11847;SOYOMBO LETTER UU;Lo;0;L;;;;N;;;;
 11848;SOYOMBO LETTER E;Lo;0;L;;;;N;;;;
 11849;SOYOMBO LETTER EE;Lo;0;L;;;;N;;;;
 1184A;SOYOMBO LETTER O;Lo;0;L;;;;N;;;;
 1184B;SOYOMBO LETTER OO;Lo;0;L;;;;N;;;;
 1184C;SOYOMBO LETTER OE;Lo;0;L;;;;N;;;;
 1184D;SOYOMBO LETTER OOE;Lo;0;L;;;;N;;;;
 1184E;SOYOMBO LETTER AU;Lo;0;L;;;;N;;;;
 1184F;SOYOMBO LETTER AI;Lo;0;L;;;;N;;;;
 11850;SOYOMBO LETTER GA;Lo;0;L;;;;N;;;;
 11851;SOYOMBO LETTER KA;Lo;0;L;;;;N;;;;
 11852;SOYOMBO LETTER NGA;Lo;0;L;;;;N;;;;
 11853;SOYOMBO LETTER JA;Lo;0;L;;;;N;;;;
 11854;SOYOMBO LETTER CA;Lo;0;L;;;;N;;;;
 11855;SOYOMBO LETTER NYA;Lo;0;L;;;;N;;;;
 11856;SOYOMBO LETTER DA;Lo;0;L;;;;N;;;;
 11857;SOYOMBO LETTER TA;Lo;0;L;;;;N;;;;
 11858;SOYOMBO LETTER NA;Lo;0;L;;;;N;;;;
 11859;SOYOMBO LETTER BA;Lo;0;L;;;;N;;;;
 1185A;SOYOMBO LETTER PA;Lo;0;L;;;;N;;;;
 1185B;SOYOMBO LETTER MA;Lo;0;L;;;;N;;;;
 1185C;SOYOMBO LETTER YA;Lo;0;L;;;;N;;;;
 1185D;SOYOMBO LETTER RA;Lo;0;L;;;;N;;;;
 1185E;SOYOMBO LETTER VA;Lo;0;L;;;;N;;;;
 1185F;SOYOMBO LETTER LA;Lo;0;L;;;;N;;;;
 11860;SOYOMBO LETTER SHA;Lo;0;L;;;;N;;;;
 11861;SOYOMBO LETTER SA;Lo;0;L;;;;N;;;;
 11862;SOYOMBO LETTER HA;Lo;0;L;;;;N;;;;
 11863;SOYOMBO LETTER KSSA;Lo;0;L;;;;N;;;;
 11864;SOYOMBO VOWEL SIGN AA;Mn;0;NSM;;;;N;;;;
 11865;SOYOMBO VOWEL SIGN I;Mn;0;NSM;;;;N;;;;
 11866;SOYOMBO VOWEL SIGN II;Mn;0;NSM;;;;N;;;;
 11867;SOYOMBO VOWEL SIGN U;Mn;0;NSM;;;;N;;;;
 11868;SOYOMBO VOWEL SIGN UU;Mn;0;NSM;;;;N;;;;
 11869;SOYOMBO VOWEL SIGN UE;Mn;0;NSM;;;;N;;;;
 1186A;SOYOMBO VOWEL SIGN UUE;Mn;0;NSM;;;;N;;;;
 1186B;SOYOMBO VOWEL SIGN E;Mn;0;NSM;;;;N;;;;
 1186C;SOYOMBO VOWEL SIGN EE;Mn;0;NSM;;;;N;;;;
 1186D;SOYOMBO VOWEL SIGN O;Mn;0;NSM;;;;N;;;;
 1186E;SOYOMBO VOWEL SIGN OO;Mn;0;NSM;;;;N;;;;
 1186F;SOYOMBO VOWEL SIGN OE;Mn;0;NSM;;;;N;;;;
 11870;SOYOMBO VOWEL SIGN OOE;Mn;0;NSM;;;;N;;;;
 11871;SOYOMBO VOWEL SIGN AU;Mn;0;NSM;;;;N;;;;
 11872;SOYOMBO VOWEL SIGN AI;Mn;0;NSM;;;;N;;;;
 11873;SOYOMBO CONSONANT SIGN G;Mn;0;NSM;;;;N;;;;
 11874;SOYOMBO CONSONANT SIGN K;Mn;0;NSM;;;;N;;;;
 11875;SOYOMBO CONSONANT SIGN NG;Mn;0;NSM;;;;N;;;;
 11876;SOYOMBO CONSONANT SIGN D;Mn;0;NSM;;;;N;;;;
 11877;SOYOMBO CONSONANT SIGN N;Mn;0;NSM;;;;N;;;;
 11878;SOYOMBO CONSONANT SIGN B;Mn;0;NSM;;;;N;;;;
 11879;SOYOMBO CONSONANT SIGN M;Mn;0;NSM;;;;N;;;;
 1187A;SOYOMBO CONSONANT SIGN R;Mn;0;NSM;;;;N;;;;
 1187B;SOYOMBO CONSONANT SIGN L;Mn;0;NSM;;;;N;;;;
 1187C;SOYOMBO CONSONANT SIGN SH;Mn;0;NSM;;;;N;;;;
 1187D;SOYOMBO CONSONANT SIGN S;Mn;0;NSM;;;;N;;;;
 1187E;SOYOMBO CONSONANT SIGN ANG;Mn;0;NSM;;;;N;;;;
 1187F;SOYOMBO LETTER GALIG GA;Lo;0;L;;;;N;;;;
 11880;SOYOMBO LETTER GALIG GHA;Lo;0;L;;;;N;;;;
 11881;SOYOMBO LETTER GALIG JA;Lo;0;L;;;;N;;;;
 11882;SOYOMBO LETTER GALIG JHA;Lo;0;L;;;;N;;;;

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11883;SOYOMBO LETTER GALIG TTA;Lo;0;L;;;;N;;;;;
11884;SOYOMBO LETTER GALIG TTHA;Lo;0;L;;;;N;;;;;
11885;SOYOMBO LETTER GALIG DDA;Lo;0;L;;;;N;;;;;
11886;SOYOMBO LETTER GALIG DDHA;Lo;0;L;;;;N;;;;;
11887;SOYOMBO LETTER GALIG NNA;Lo;0;L;;;;N;;;;;
11888;SOYOMBO LETTER GALIG DA;Lo;0;L;;;;N;;;;;
11889;SOYOMBO LETTER GALIG DHA;Lo;0;L;;;;N;;;;;
1188A;SOYOMBO LETTER GALIG BA;Lo;0;L;;;;N;;;;;
1188B;SOYOMBO LETTER GALIG BHA;Lo;0;L;;;;N;;;;;
1188C;SOYOMBO LETTER GALIG SSA;Lo;0;L;;;;N;;;;;
1188D;SOYOMBO LETTER VOCALIC R;Lo;0;L;;;;N;;;;;
1188E;SOYOMBO LETTER VOCALIC RR;Lo;0;L;;;;N;;;;;
1188F;SOYOMBO LETTER VOCALIC L;Lo;0;L;;;;N;;;;;
11890;SOYOMBO LETTER VOCALIC LL;Lo;0;L;;;;N;;;;;
11891;SOYOMBO VOWEL SIGN VOCALIC R;Mn;0;NSM;,,;N;;;;;
11892;SOYOMBO VOWEL SIGN VOCALIC RR;Mn;0;NSM;,,;N;;;;;
11893;SOYOMBO VOWEL SIGN VOCALIC L;Mn;0;NSM;,,;N;;;;;
11894;SOYOMBO VOWEL SIGN VOCALIC LL;Mn;0;NSM;,,;N;;;;;
11895;SOYOMBO SIGN ANUSVARA;Mn;0;NSM;,,;N;;;;;
11896;SOYOMBO SIGN VISARGA;Mc;0;L;;;;N;;;;;
11897;SOYOMBO LIGATURE KYA;Lo;0;L;;;;N;;;;;
11898;SOYOMBO LIGATURE KRA;Lo;0;L;;;;N;;;;;
11899;SOYOMBO LIGATURE KLA;Lo;0;L;;;;N;;;;;
1189A;SOYOMBO LIGATURE KMA;Lo;0;L;;;;N;;;;;
1189B;SOYOMBO LIGATURE KKA;Lo;0;L;;;;N;;;;;
1189C;SOYOMBO LIGATURE NGKA;Lo;0;L;;;;N;;;;;
1189D;SOYOMBO LIGATURE NYCA;Lo;0;L;;;;N;;;;;
1189E;SOYOMBO LIGATURE NNTTA;Lo;0;L;;;;N;;;;;
1189F;SOYOMBO LIGATURE NTA;Lo;0;L;;;;N;;;;;
118A0;SOYOMBO LIGATURE MPA;Lo;0;L;;;;N;;;;;
118A1;SOYOMBO LIGATURE LKA;Lo;0;L;;;;N;;;;;
118A2;SOYOMBO LIGATURE SHKA;Lo;0;L;;;;N;;;;;
118A3;SOYOMBO LIGATURE SKA;Lo;0;L;;;;N;;;;;
118A4;SOYOMBO LIGATURE RKA;Lo;0;L;;;;N;;;;;
118A5;SOYOMBO LETTER TSA;Lo;0;L;;;;N;;;;;
118A6;SOYOMBO LETTER TSHA;Lo;0;L;;;;N;;;;;
118A7;SOYOMBO LETTER DZA;Lo;0;L;;;;N;;;;;
118A8;SOYOMBO LETTER ZHA;Lo;0;L;;;;N;;;;;
118A9;SOYOMBO LETTER ZA;Lo;0;L;;;;N;;;;;
118AA;SOYOMBO LETTER -A;Lo;0;L;;;;N;;;;;
118AB;SOYOMBO DANDA;Po;0;L;;;;N;;;;;
118AC;SOYOMBO DOUBLE DANDA;Po;0;L;;;;N;;;;;
118AD;SOYOMBO WORD SEPARATOR;Po;0;L;;;;N;;;;;
118AE;SOYOMBO SYMBOL INITIAL;Lo;0;L;;;;N;;;;;
118AF;SOYOMBO SYMBOL TERMINAL;Lo;0;L;;;;N;;;;;
11850;SOYOMBO SYMBOL;Lo;0;L;;;;N;;;;;

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5 Encoding Model

It may be suitable to implement Soyombo using the model for Tibetan.

6 Character Names

Names for characters align largely based upon those given by Shagdarsürgüng (2001). The majority of names are similar to in N1855. Characters that are assigned names in the present proposal that differ from names suggested in N1855 are listed below:

Present Proposal	N1855	Present Proposal	N1855
ᠳ	JA	ᠳ	GALIG BHA
ᠴ	KSSA	ᠴ	GALIG SSA
ᠵ	VOCALIC R	ᠶ	LIGATION NGKA
ᠶ	VOCALIC RR	ᠷ	LIGATION NYCA
ᠷ	VOCALIC L	ᠸ	LIGATION NNTTA
ᠸ	VOCALIC LL	ᠹ	TSA
ᠺ	GALIG TTA	ᠺ	TSHA
ᠻ	GALIG TTHA	ᠻ	DZA
ᠻ	GALIG DDA	ᠻ	ZA
ᠻ	GALIG DDHA	ᠻ	-A
ᠻ	GALIG DA	ᠻ	DANDA
ᠻ	GALIG DHA	ᠻ	DOUBLE DANDA
ᠻ	GALIG BA	ᠻ	STOP

Some proposed names are based upon the naming convention used for Tibetan characters in the UCS.

7 Notes on Proposed Characters

The proposed character repertoire and glyph shapes are fairly similar to those proposed in N1855. The differences are indicated below:

- Dependent vowel signs are not proposed in N1855.
- Final consonant signs are not proposed as combining marks in N1855. They are shown combined with ᠳ A.
- ၈ ANUSVARA is not proposed in N1855. It is shown as ၈ (A + ANUSVARA), with the name LETTER AMM.
- ၉ VISARGA is not proposed as a combining mark in N1855. It is shown as ၉ (A + VISARGA), with the name LETTER AH.
- The character ၊ is included in N1855 with the name SOYOMBO DUMMY. It is not proposed here.

8 References

- Atwood, Christopher P. 2004. *Encyclopedia of Mongolia and the Mongol Empire*. New York: Facts on File.
- Boldsaikhan, B., B. Batsana, and Ts. Oyuntsetseg. 2005. *Соёмбо Нууц ба Синергетик [= Secret of Soyombo and Synergetic]*. (Түвэд, монгол бичгийн эхийг орчуулан хавсаргав). 

የ ማኅና ትኩስ. Ed. by T. Bulgan. Ulaanbaatar: Shambala Association, System Science Research Institute, Mongolian University of Science and Technology.

Corff, Oliver. Soyombo for L^AT_EX, v. 0.9. September 2, 1996. <http://userpage.fu-berlin.de/~corff/im/Soyombo/overview.Soyombo.html>

“Histoire du livre”. 2010. “Histoire du livre et histoire de l’écriture: l’écriture, entre pratique, symbole et économie” (26 August 2010). <http://histoire-du-livre.blogspot.com/2010/08/lecriture-entre-le-symbole-et-la.html>

Kapaj, Luigi. 2002. "Mongol Scripts". <http://www.viahistoria.com/SilverHorde/main.html?research/MongolScripts.html>

Mongolwiki. 2008. “Сайн чанарын зураг байхгүй байна”. [http://wiki.ecm-outsourcing.com/index.php?title=%D0%A4%D1%80%D0%FF%D1%8C%D0%BA%D0%BE%D1%82:Soyombo_usqin_bar.gif](http://wiki.ecm-outsourcing.com/index.php?title=%D0%A4%D1%80%D0%BF%D1%8C%D0%BA%D0%BE%D1%82:Soyombo_usqin_bar.gif)

Mongolia and Japan. "Addition of Soyombo Script". ISO/IEC JTC1/SC2/WG2 N1855 L2/98-358. September 21, 1998.

Pandey, Anshuman. 2010. "Preliminary Proposal to Encode the Xawtaa Dorboljin Script in ISO/IEC 10646" ISO/IEC JTC1/SC2/WG2 N3956 L2/10-411. October 23, 2010. <http://std.dkuug.dk/jtc1/sc2/wg2/docs/n3956.pdf>

Sato, Takayuki K. "Soyombo and Pagba (old Mongol scripts)". ISO/IEC JTC1/SC2/WG2 N2163 L2/00-055. January 6, 2000. <http://std.dkuug.dk/jtc1/sc2/wg2/docs/n2163.doc>

Shagdarsürüng, Tseveliin. 2001. *Study of Mongolian Scripts* (Graphic Study or Grammatology). Enl. 2nd ed. Bibliotheca Mongolica: Monograph 1. Ed. by Sharaviin Choimaa. Ulaanbaatar: Center for Mongol Studies, National University of Mongolia.

Wikimedia. 2008. "Flag of Mongolia". http://en.wikipedia.org/wiki/File:Flag_of_Mongolia.svg.

———. 2009a. “Coat of Arms of Mongolia”. http://en.wikipedia.org/wiki/File:Coat_of_Arms_of_Mongolia.svg

———. 2009b. “Green Tara poem typed in Soyombo script”. http://en.wikipedia.org/wiki/File:Green_Tara_Poem_Soyombo.jpg

9 Acknowledgments

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	1184	1185	1186	1187	1188	1189	118A	118B
0	ᠮ	ᠮ	ᠮ	ᠤ	ᠮ	ᠮ	ᠮ	ᠮ
1	ᠮ	ᠮ	ᠮ	ᠤ	ᠮ	ᠮ	ᠮ	
2	ᠮ	ᠮ	ᠮ	ᠤ	ᠮ	ᠮ	ᠮ	
3	ᠮ	ᠮ	ᠮ	ᠤ	ᠮ	ᠮ	ᠮ	
4	ᠮ	ᠮ	ᠤ	ᠤ	ᠮ	ᠮ	ᠮ	
5	ᠮ	ᠮ	(	○	ᠮ	○	ᠮ	
6	ᠮ	ᠮ	(	○	ᠮ	○	ᠮ	
7	ᠮ	ᠮ	(	○	ᠮ	ᠮ	ᠮ	
8	ᠮ	ᠮ	(	○	ᠮ	ᠮ	ᠮ	
9	ᠮ	ᠮ	(	○	ᠮ	ᠮ	ᠮ	
A	ᠮ	ᠮ	()	○	ᠮ	ᠮ	ᠮ	
B	ᠮ	ᠮ	—	○	ᠮ	ᠮ	—	
C	ᠮ	ᠮ	—	○	ᠮ	ᠮ	||	
D	ᠮ	ᠮ	—	○	ᠮ	ᠮ	▼	
E	ᠮ	ᠮ	—	○	ᠮ	ᠮ	○	
F	ᠮ	ᠮ	—	○	ᠮ	ᠮ	▮	

Figure 1: Proposed code chart for Soyombo.

Vowels

11840	Ѐ	SOYOMBO LETTER A
11841	Ӗ	SOYOMBO LETTER AA
11842	Ӗ	SOYOMBO LETTER I
11843	Ӗ	SOYOMBO LETTER II
11844	Ӗ	SOYOMBO LETTER UE
11845	Ӗ	SOYOMBO LETTER UUE
11846	Ӗ	SOYOMBO LETTER U
11847	Ӗ	SOYOMBO LETTER UU
11848	Ӗ	SOYOMBO LETTER E
11849	Ӗ	SOYOMBO LETTER EE
1184A	Ӗ	SOYOMBO LETTER O
1184B	Ӗ	SOYOMBO LETTER OO
1184C	Ӗ	SOYOMBO LETTER OE
1184D	Ӗ	SOYOMBO LETTER OOE
1184E	Ӗ	SOYOMBO LETTER AU
1184F	Ӗ	SOYOMBO LETTER AI

Consonants

11850	Ѐ	SOYOMBO LETTER GA
		• Also represents Sanskrit ka
11851	Ӗ	SOYOMBO LETTER KA
		• Also represents Sanskrit kha
11852	Ӗ	SOYOMBO LETTER NGA
11853	Ӗ	SOYOMBO LETTER JA
		• Also represents Sanskrit ca
11854	Ӗ	SOYOMBO LETTER CA
		• Also represents Sanskrit cha
11855	Ӗ	SOYOMBO LETTER NYA
11856	Ӗ	SOYOMBO LETTER DA
		• Also represents Sanskrit ta
11857	Ӗ	SOYOMBO LETTER TA
		• Also represents Sanskrit tha
11858	Ӗ	SOYOMBO LETTER NA
11859	Ӗ	SOYOMBO LETTER BA
		• Also represents Sanskrit pa
1185A	Ӗ	SOYOMBO LETTER PA
		• Also represents Sanskrit pha
1185B	Ӗ	SOYOMBO LETTER MA
1185C	Ӗ	SOYOMBO LETTER YA
1185D	Ӗ	SOYOMBO LETTER RA
1185E	Ӗ	SOYOMBO LETTER VA
1185F	Ӗ	SOYOMBO LETTER LA
11860	Ӗ	SOYOMBO LETTER SHA
11861	Ӗ	SOYOMBO LETTER SA
11862	Ӗ	SOYOMBO LETTER HA
11863	Ӗ	SOYOMBO LETTER KSSA

Vowel signs

11864	Ѡ	SOYOMBO VOWEL SIGN AA
11865	Ѡ	SOYOMBO VOWEL SIGN I
11866	Ѡ	SOYOMBO VOWEL SIGN II
11867	Ѡ	SOYOMBO VOWEL SIGN UE
11868	Ѡ	SOYOMBO VOWEL SIGN UUE
11869	Ѡ	SOYOMBO VOWEL SIGN U
1186A	Ѡ	SOYOMBO VOWEL SIGN UU
1186B	Ѡ	SOYOMBO VOWEL SIGN E
1186C	Ѡ	SOYOMBO VOWEL SIGN EE
1186D	Ѡ	SOYOMBO VOWEL SIGN O
1186E	Ѡ	SOYOMBO VOWEL SIGN OO
1186F	Ѡ	SOYOMBO VOWEL SIGN OE
11870	Ѡ	SOYOMBO VOWEL SIGN OOE
11871	Ѡ	SOYOMBO VOWEL SIGN AU
11872	Ѡ	SOYOMBO VOWEL SIGN AI

Final consonant signs

11873	Ѡ	SOYOMBO CONSONANT SIGN G
		• Also represents Sanskrit -k
11874	Ѡ	SOYOMBO CONSONANT SIGN K
		• Also represents Sanskrit -kh
11875	Ѡ	SOYOMBO CONSONANT SIGN NG
11876	Ѡ	SOYOMBO CONSONANT SIGN D
		• Also represents Sanskrit -t
11877	Ѡ	SOYOMBO CONSONANT SIGN N
11878	Ѡ	SOYOMBO CONSONANT SIGN B
		• Also represents Sanskrit -p
11879	Ѡ	SOYOMBO CONSONANT SIGN M
1187A	Ѡ	SOYOMBO CONSONANT SIGN R
1187B	Ѡ	SOYOMBO CONSONANT SIGN L
1187C	Ѡ	SOYOMBO CONSONANT SIGN SH
1187D	Ѡ	SOYOMBO CONSONANT SIGN S
1187E	Ѡ	SOYOMBO CONSONANT SIGN ANG

Consonant additions for Sanskrit

1187F	Ѐ	SOYOMBO LETTER GALIG GA
11880	Ӗ	SOYOMBO LETTER GALIG GHA
11881	Ӗ	SOYOMBO LETTER GALIG JA
11882	Ӗ	SOYOMBO LETTER GALIG JHA
11883	Ӗ	SOYOMBO LETTER GALIG TTA
11884	Ӗ	SOYOMBO LETTER GALIG TTHA
11885	Ӗ	SOYOMBO LETTER GALIG DDA
11886	Ӗ	SOYOMBO LETTER GALIG DDHA
11887	Ӗ	SOYOMBO LETTER GALIG NNA
11888	Ӗ	SOYOMBO LETTER GALIG DA
11889	Ӗ	SOYOMBO LETTER GALIG DHA
1188A	Ӗ	SOYOMBO LETTER GALIG BA
1188B	Ӗ	SOYOMBO LETTER GALIG BHA
1188C	Ӗ	SOYOMBO LETTER GALIG SSA

Vowel additions for Sanskrit

1188D	Ӗ	SOYOMBO LETTER VOCALIC R
1188E	Ӗ	SOYOMBO LETTER VOCALIC RR
1188F	Ӗ	SOYOMBO LETTER VOCALIC L
11890	Ӗ	SOYOMBO LETTER VOCALIC LL
11891	Ѡ	SOYOMBO SIGN VOCALIC R
11892	Ѡ	SOYOMBO SIGN VOCALIC RR
11893	Ѡ	SOYOMBO SIGN VOCALIC L
11894	Ѡ	SOYOMBO SIGN VOCALIC LL

Various signs for Sanskrit

11895	Ѡ	SOYOMBO SIGN ANUSVARA
11896	Ѡ	SOYOMBO SIGN VISARGA

Ligatures

11897	Ѡ	SOYOMBO LIGATURE KYA
11898	Ѡ	SOYOMBO LIGATURE KRA
11899	Ѡ	SOYOMBO LIGATURE KLA
1189A	Ѡ	SOYOMBO LIGATURE KMA
1189B	Ѡ	SOYOMBO LIGATURE KKA
1189C	Ѡ	SOYOMBO LIGATURE NGKA
1189D	Ѡ	SOYOMBO LIGATURE NYCA
1189E	Ѡ	SOYOMBO LIGATURE NNTTA
1189F	Ѡ	SOYOMBO LIGATURE NTA
118A0	Ѡ	SOYOMBO LIGATURE MPA
118A1	Ѡ	SOYOMBO LIGATURE LKA
118A2	Ѡ	SOYOMBO LIGATURE SHKA
118A3	Ѡ	SOYOMBO LIGATURE SKA
118A4	Ѡ	SOYOMBO LIGATURE RKA

Consonant additions for Tibetan

118A5	Ѡ	SOYOMBO LETTER TSA
118A6	Ѡ	SOYOMBO LETTER TSHA
118A7	Ѡ	SOYOMBO LETTER DZA

Figure 2: Proposed names list for Soyombo (continued in Figure 3).

118A8 ՚ SOYOMBO LETTER ZHA
 118A9 ՚ SOYOMBO LETTER ZA

Vowel addition for Tibetan

118AA ՚ SOYOMBO LETTER -A

Punctuation

118AB ՚ SOYOMBO DANDA
 • comma
 118AC ՚՚ SOYOMBO DOUBLE DANDA
 • full stop
 118AD ՚ SOYOMBO WORD SEPARATOR

Symbols

118AE ՚՚ SOYOMBO SYMBOL INITIAL
 118AF ՚՚՚ SOYOMBO SYMBOL TERMINAL
 118B0 ՚՚՚՚ SOYOMBO SYMBOL

Figure 3: Proposed names list for Soyombo (continued from Figure 2).

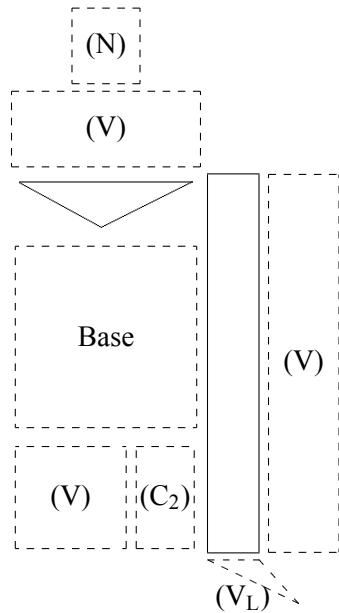


Figure 4: Basic graphical structure of Soyombo characters (adapted from Corff (1996)).



Figure 5: Photograph of a chart of the Soyombo script (from “Histoire du livre” 2010).

ज्ञानसूक्ष्मा त्रिवृत् मध्यमा अवैक्षणीया त्रिवृत्त्वा भौतिक्ये ज्ञानसूक्ष्मा
 अन्तर्मिश्रा अवैक्षणीया अङ्गाभासं परमामृता विद्वान् तप्त्वा ब्रह्मा
 त्रिवृत्त्वाद्विषया अभिवृत्त्वा ब्रह्माभासं त्रिपूर्वे ज्ञानत्रिवृत् त्रिवृत्त्वा अवैक्षणीया
 अवैक्षणीया अवैक्षणीया अवैक्षणीया अवैक्षणीया

ମୁଖାକ୍ରମ ଶ୍ଵରୋକ୍ତ୍ତି ଅନ୍ତରୀମୀ ପ୍ରଥମ ଶ୍ଵରୋ ଅନ୍ତରୀମୀ ଶ୍ଵରୀ
ମୁଖୀ ଭଣୀଗ୍ରହିତୀ ଭାବେକ୍ଷି ଅନ୍ତରୀମୀଶ୍ଵରୀ ବେଳୁମୁକ୍ତ ଏବେଗିତ୍ତି ମୁଦ୍ରିତି||

अमृता अश्वत्त्वा शश्वर् सुद्रवीन् समस्या श्वेत्प्रसादं अमृतं
 अमृतं श्वेत्प्रसादं सिंहामीजले श्वेत्प्रसादं नमः श्वेत्प्रसादं
 मशी श्वेत्प्रसादं श्वेत्प्रसादं अश्वत्त्वा श्वेत्प्रसादं कृत्वा
 मशी श्वेत्प्रसादं श्वेत्प्रसादं श्वेत्प्रसादं श्वेत्प्रसादं कृत्वा
 मशी श्वेत्प्रसादं श्वेत्प्रसादं श्वेत्प्रसादं कृत्वा श्वेत्प्रसादं कृत्वा
 मशी श्वेत्प्रसादं श्वेत्प्रसादं कृत्वा श्वेत्प्रसादं कृत्वा श्वेत्प्रसादं कृत्वा

ଜ୍ଞାନକୁ ଆମେହି ଯେମ୍ପାଦିଷ୍ଟ ବ୍ୟକ୍ତିକୁ ଝଣ୍ଡାରୀ ଛପୁ ଥିଲାଏଥା
ଜ୍ଞାନକୁ ଠେଣି ଶ୍ଵାଗ ତୁଳେ କ୍ରମିକ ନୈର୍ବ୍ୟଭାବରେ ଝୁଲୁ ଥିଲାଏଥା
କର୍ତ୍ତବ୍ୟକୁ ଝଣ୍ଡାରୀ ଠେଣି ଶ୍ଵାଗ ବେ ଝାନିଶାକୁ ଅଣିଶାକୁ ଝାନିଶାକୁ ଯେବେନାହିଁ
ଝାନ୍ତି ନର୍ତ୍ତକିତା କ୍ରମିକରୁ ଫେରୁ କ୍ରମିକରୁ ଝାନ୍ତି କି କ୍ରମିକରୁ ଫେରୁ ॥

ଜ୍ଞାନସ୍ତୁରୀ ଶ୍ରୀମଦ୍ଭଗବତ କ୍ଷେତ୍ର ପ୍ରକାଶ କାନ୍ତି ଲେଖଣୀ ପରିଚୟ କାନ୍ତି ପରିଚୟ କାନ୍ତି

ମୁଖ୍ୟେ ନଶ ଜାତ ବା ଅଶୀଷ ଦୂର ତିବେ ଏହ୍ଲ ହୀ
ମୁଖ୍ୟେ ନଶ ଜାତ ବା ଜ୍ଞାନୀଶୀଳ ଜାତ ତିବେ ଏହ୍ଲ ହୀ
ମୁଖ୍ୟେ ନଶ ଜାତ ବା ଜ୍ଞାନୀଶୀଳ ଜାତ ତିବେ ଏହ୍ଲ ହୀ
ଜ୍ଞାନୀଶୀଳ ନଶ ଜାତ ବା ଜ୍ଞାନୀଶୀଳ ଜ୍ଞାନୀଶୀଳ ତିବେ ଏହ୍ଲ ହୀ॥

༄༅། ། ཤ්වේත རිහ්ව རිහ්ව རිහ්ව རිහ්ව

Figure 6: Poem for the Green Tara typeset in a digitized Sovombo font (from Wikimedia 2009b)

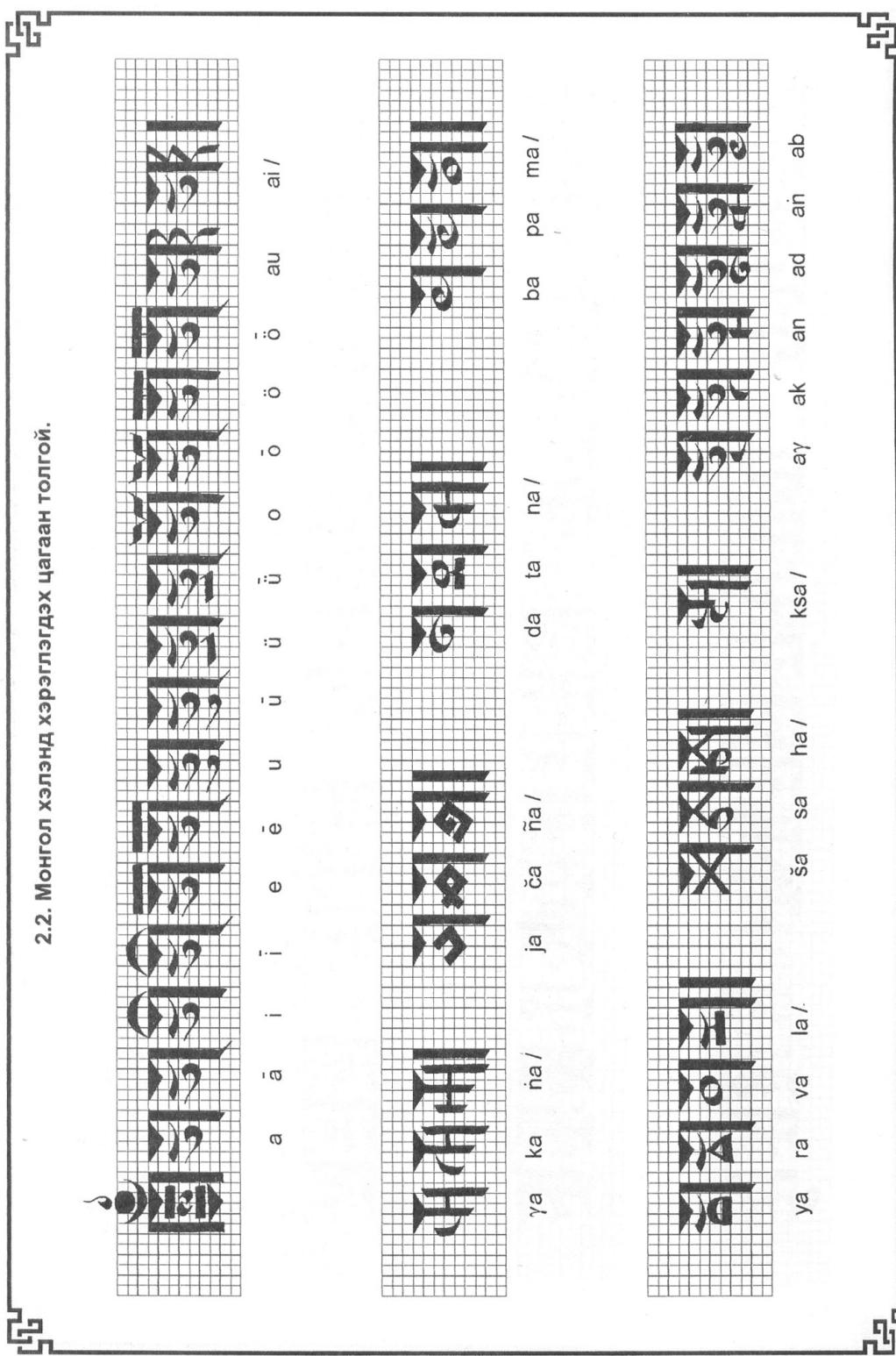


Figure 7: Characters of the Soyombo script (from Boldsaikhan, et al. 2005: 367).

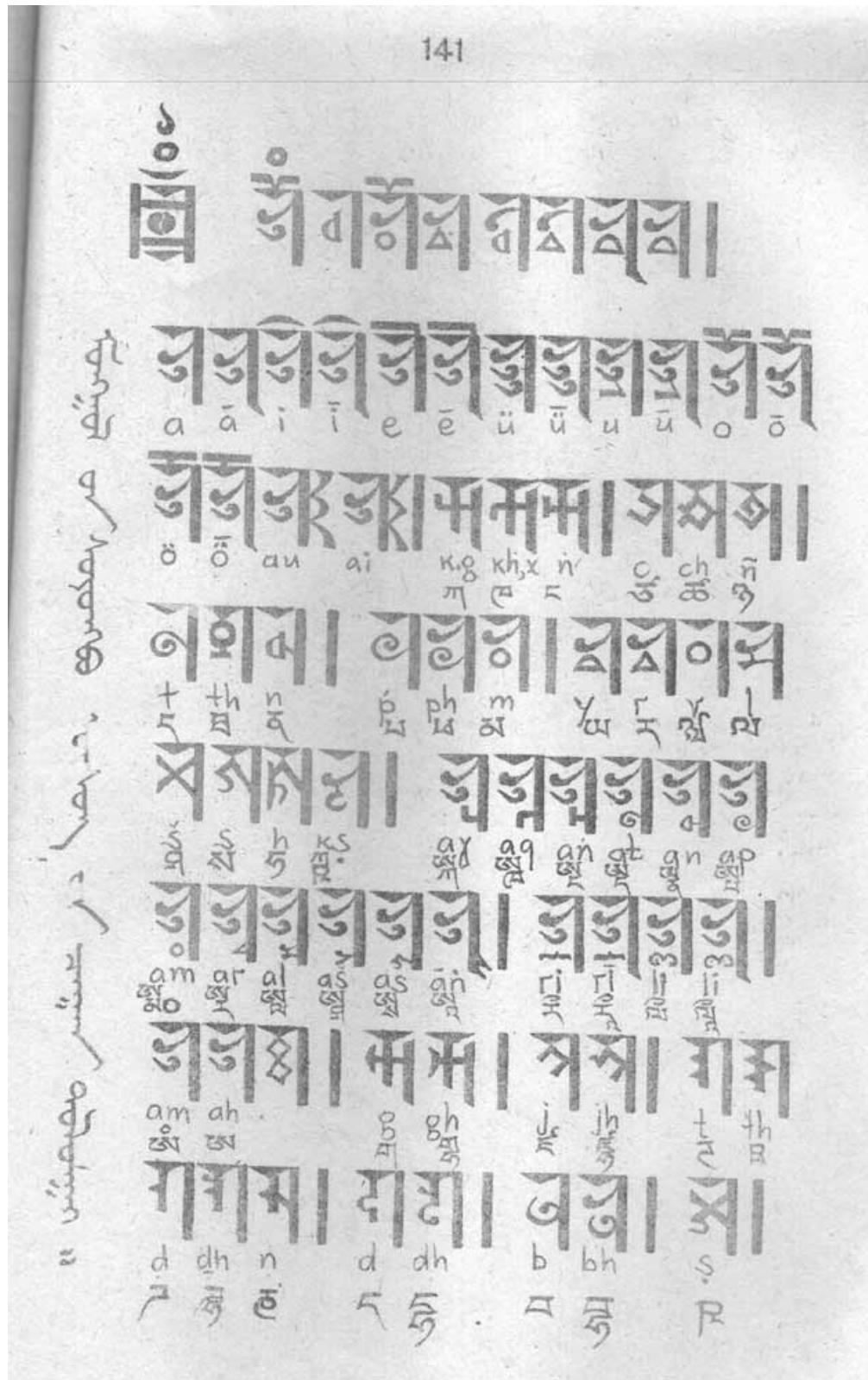


Figure 8: Characters of the Soyombo script (from Kapaj 2002).

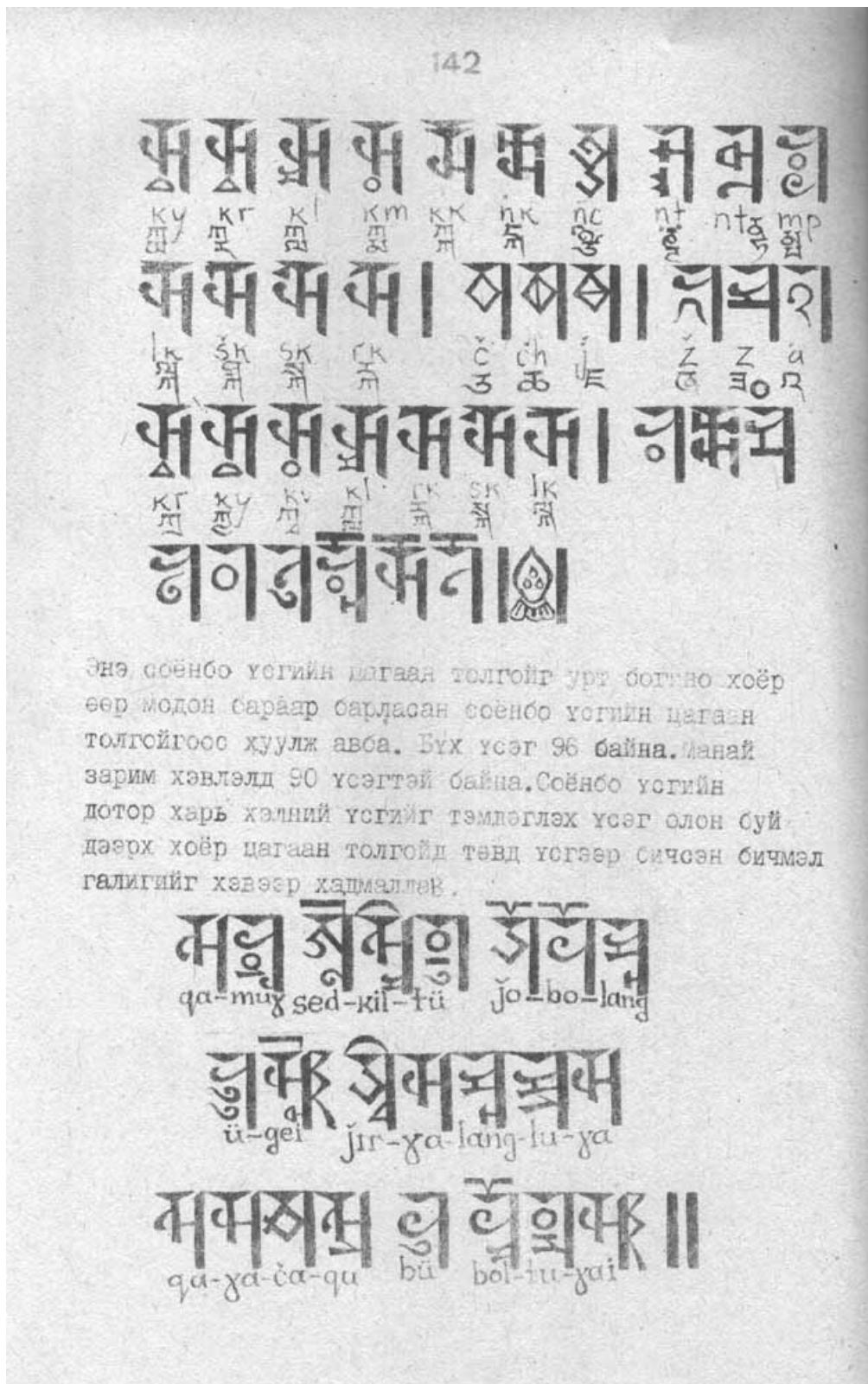


Figure 9: Characters of the Soyombo script (from Kapaj 2002).

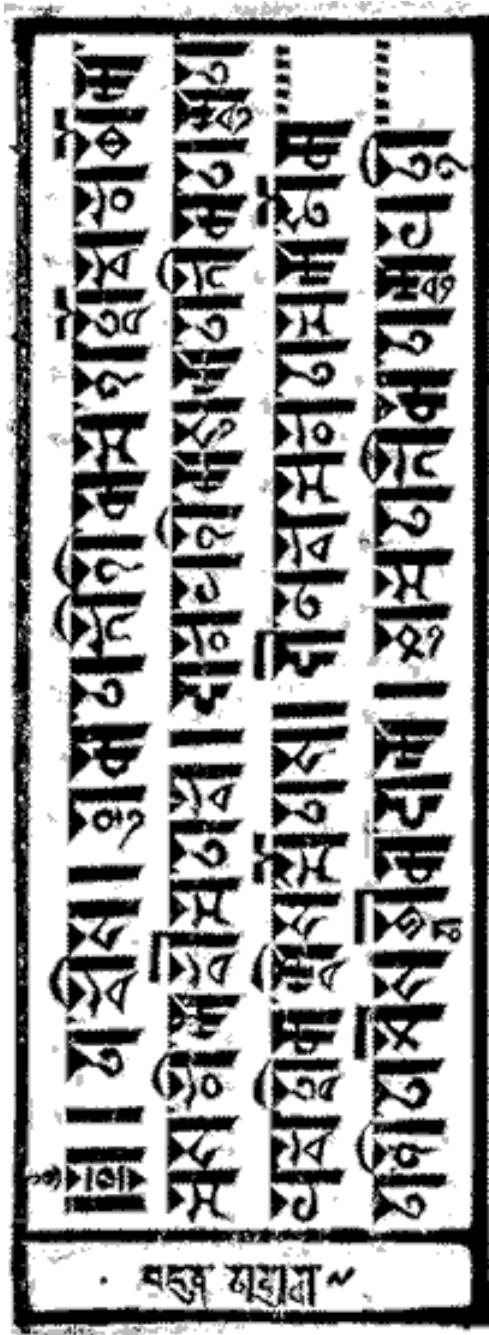


Figure 10: A folio from a Soyombo manuscript (from Mongolwiki 2008).



Figure 11: The flag of Mongolia (from Wikimedia 2008).



Figure 12: The coat of arms of Mongolia (from Wikimedia 2009a).