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

**Doc Type: Working Group Document** 

Title: Revised proposal for encoding the SignWriting script in the SMP of the UCS

Source: Michael Everson, Stephen Slevinski, and Valerie Sutton

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

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**1. Introduction.** SignWriting is a script developed in 1974 by Valerie Sutton, the inventor of Sutton Movement Writing, who two years earlier had developed DanceWriting. SignWriting is a featural script, its glyphs being visually iconic as well as in their spatial arrangement in text, which represents a sort of snapshot of any given sign. SignWriting is currently being used to write the following Sign Languages:

American Sign Language (in USA, English-speaking Canada) Japanese Sign Language Arabian Sign Languages Malawi Sign Language Australian Sign Language Malaysian Sign Language Bolivian Sign Language Maltese Sign Language Brazilian Sign Language Mexican Sign Language British Sign Language Nepalese Sign Language Catalan Sign Language New Zealand Sign Language Colombian Sign Language Nicaraguan Sign Language Czech Sign Language Norwegian Sign Language Danish Sign Language Peruvian Sign Language **Dutch Sign Language** Philippines Sign Language Ethiopian Sign Language Polish Sign Language Finnish Sign Language Portugese Sign Language Flemish Sign Language Québec Sign Language French-Belgian Sign Language South African Sign Language French Sign Language Spanish Sign Language German Sign Language Swedish Sign Language Greek Sign Language Swiss Sign Language Irish Sign Language Taiwanese Sign Language Italian Sign Language Tunisian Sign Language

A variety of literature exists in SignWriting. Much of it is lexical in nature (Sign Language dictionaries), but many longer texts, (such as the Gospels of Matthew, Mark, and John in American Sign Language) also exist (see www.signwriting.org/library/history/publications). It is estimated that there are thousands of publications in SignWriting, whether in ASL, or German Sign Language, Nicaraguan Sign Language, and so on.

**2. Structure.** The fundamental writing unit of SignWriting is called a "symbol", which in UCS terms is "character". The basic characters represent handshapes, facial expressions, and various indications of motion and contact. No single Sign Language uses all of the characters available in the SignWriting repertoire; some handshapes are distinctive in some Sign Languages while allophonic in others. Graphically, SignWriting characters are combined spatially on two-dimensional canvases to form individual "signs" (roughly equivalent to "words"). This spatial organization is *spelling* and is an essential part of the writing system.

Computer processing of SignWriting has been possible for many years, beginning with the SignWriter program which was in use from 1985 to 2004 (and continues to be used in some countries today). SignPuddle has been the world standard for SignWriting software from 2004 to present. In terms of UCS encoding, two main stages will be required. The first stage (represented in this proposal) is simpler: the encoding of the basic characters. These are simply graphic characters, proposed to be encoded in Plane 1. The second stage will deal with the spatial organization of SignWriting characters. The latter are anticipated to be encoded as control characters specific to SignWriting, probably in Plane 14. Currently, software developers for SignWriting use a variety of mechanisms to achieve spatial organization; research is ongoing to determine what the optimum mechanism is, in terms of accuracy and economy.

- **3. Character repertoire.** The largest group of graphic characters used in SignWriting represent 261 handshapes. There are also 250 motion and contact characters, 110 head and face characters, 26 body and location characters, 5 punctuation marks, and 20 characters which indicate "fill" and "rotation".
- **4. Fill and rotation characters.** These characters are somewhat analogous to the "shifter" characters proposed for Miao vowels in N3789 ("Final proposal for encoding the Miao script in the SMP of the UCS"). It is easiest to describe this in terms of the handshapes. A "fill" in SignWriting indicates the relative position of a handshape as the signer (or writer of SignWriting) views his or her hand. A black fill indicates that the back of the hand is viewed by the signer; a white fill indicates that the palm of the hand is viewed by the signer; and a half-fill indicates that the side of the hand is viewed by the signer. There are three fills which indicate when the hand is in a vertical plane (parallel to a wall) and three which indicate when the hand is in a horizontal plane (parallel to the floor).

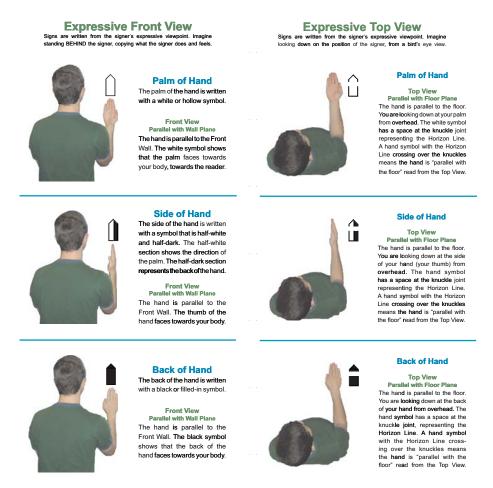


Figure 1. An example showing SIGNWRITING HAND-FLAT handshape with various fills.

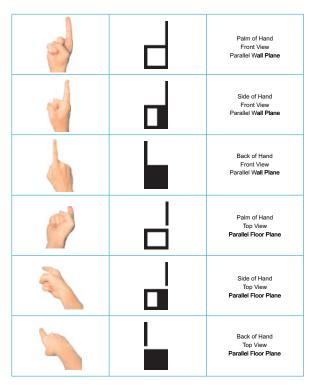


Figure 2. An example of SIGNWRITING HAND-FIST INDEX with various fills.

A "rotation" indicates one of sixteen positions a handshape can appear in. Rotation is also the means used to distinguish a left-hand character from a right-hand character.

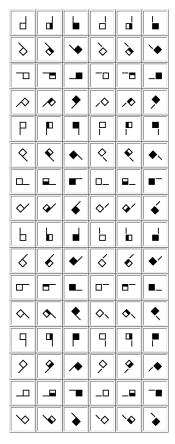


Figure 3. An example of SIGNWRITING HAND-FIST INDEX with all of the fills and rotations.

Thus it can be seen that a given handshape may have 96 different realizations. This is somewhat analogous to the letter e which serves as a base character but may be modified by various diacritical

marks, as in  $\acute{e}$   $\grave{e}$   $\acute{e}$   $\acute$ 

character.		
d = d d + (\$\frac{1}{2}\) = \$\frac{1}{2}	$ \begin{array}{c}                                     $	☐ + [\$W F3] = ☐ ☐ + [\$W F3] + [\$W R2] = ◆
☐ + [SW] = □	☐ + [\$\text{SW}   + [\$\text{SW}   = □	
☐ + [SW] = ◇	☐ + [SW] + [SW] = ◆	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = $
☐ + (RS) = [P]	$\frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} = \blacksquare$	
☐ + [sw] = <	☐ + [\$\text{SW}   + [\$\text{SW}   = \bigotimes	$\frac{1}{1} + \begin{bmatrix} sw \\ F3 \end{bmatrix} + \begin{bmatrix} sw \\ R6 \end{bmatrix} = \bullet$
☐ + [SW] = □	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$	+ [sw] + [sw] = -
☐ + [SW] = <b>&lt;</b>	$\frac{1}{1} + \begin{bmatrix} sw \\ F2 \end{bmatrix} + \begin{bmatrix} sw \\ R8 \end{bmatrix} = \checkmark$	
d + [sw] = b	$_{\square}$ + $_{[F2]}$ + $_{[R9]}$ = $_{\square}$	$ + \begin{bmatrix} sw \\ F3 \end{bmatrix} + \begin{bmatrix} sw \\ R9 \end{bmatrix} = $
☐ + [SW] = <		
d + [sw] = □		_ + [SW] + [SW] = ■
$d + SW = \diamondsuit$		
$d + \frac{sw}{ris} = 0$		+ [SW] + [SW] = F
d + SW = \$	$\frac{1}{1} + \frac{1}{12} + \frac{1}{12} = 9$	
d + sw = □	☐ + [\$\text{SW}] + [\$\text{SW}] = _□	$ + \begin{bmatrix} sw \\ F3 \end{bmatrix} + \begin{bmatrix} sw \\ R15 \end{bmatrix} =  $
d + sw = ≫		
d + [sw] = d	d + [\$W F5] = □	$ + \begin{bmatrix} sw \\ F6 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix} $
		☐ + [sw] + [sw] = _■
☐ + SW F4 + SW R4 = ✓	☐ + [SW] + [SW] = ✓◆	
		$ + \begin{bmatrix} SW \\ F6 \end{bmatrix} + \begin{bmatrix} SW \\ R5 \end{bmatrix} = \blacksquare $
	$\Box + \begin{bmatrix} SW \\ FS \end{bmatrix} + \begin{bmatrix} SW \\ R7 \end{bmatrix} = \Box \Box$	$ + \begin{bmatrix} sw \\ F6 \end{bmatrix} + \begin{bmatrix} sw \\ R7 \end{bmatrix} =                                 $
d + sw + sw = ♦	☐ + [\$\text{SW}   + [\$\text{SW}   = \leftright\righta	
d + sw + sw = d		$ + \begin{bmatrix} sw \\ F6 \end{bmatrix} + \begin{bmatrix} sw \\ R9 \end{bmatrix} = $
$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 4$	☐ + [\$\text{SW}] + [\$\text{RHO}] = \$\tilde{\phi}\$	
☐ + [\$\frac{1}{2}\text{#}] + [\$\frac{1}{2}\text{#}] = □ -		_ + [\$W] + [\$W] = ■_
d + [sw] + [sw] = ♦\		
		- + [sw] + [sw] = ■
$\frac{1}{1} + \frac{1}{1} + \frac{1}{1} = $	$ \begin{vmatrix} + & SW \\ F5 & + & R13 \\ + & SW \\ F5 & + & R14 \\ \end{vmatrix} =  $	☐ + [SW] + [SW] = ■ ☐ + [SW] + [SW] = ,◆
☐ + [\$\vec{9}\vec{9}\vec{1}\v	$ \begin{vmatrix} + & SW \\ F5 \end{vmatrix} + \begin{vmatrix} SW \\ R13 \end{vmatrix} = \begin{vmatrix} - & & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & & & \\ - & & \\ - & & \\ - & & \\ - & & \\ - & & \\ - & & \\ - & & $	$ \begin{vmatrix} + \begin{bmatrix} SW \\ F6 \end{bmatrix} + \begin{bmatrix} SW \\ R13 \end{bmatrix} = \begin{bmatrix} \blacksquare \\ + \begin{bmatrix} SW \\ F6 \end{bmatrix} + \begin{bmatrix} SW \\ R14 \end{bmatrix} = \nearrow \Phi $ $ \begin{vmatrix} + \begin{bmatrix} SW \\ F6 \end{bmatrix} + \begin{bmatrix} SW \\ R15 \end{bmatrix} = -\boxed{\blacksquare} $
$\frac{1}{1} + \frac{1}{1} + \frac{1}{1} = $	$ \begin{vmatrix} + & SW \\ F5 & + & R13 \\ + & SW \\ F5 & + & R14 \\ \end{vmatrix} =  $	$ \begin{array}{c}                                     $

A font implementation which does not have support for fill and rotation should simply display or or or or occur. In the example here, note that the handshape with (inherent) Fill 1 has no rotations as it does not occur in any sign language.

These arrows do not have the "handedness" of the handshapes, so they take only 8 rotations, and require only 4 fills.

$$\uparrow = \uparrow \qquad \qquad \uparrow + \stackrel{SW}{F2} = \uparrow \qquad \qquad \uparrow + \stackrel{SW}{F3} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F2} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F2} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F2} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad \qquad \uparrow + \stackrel{SW}{F4} + \stackrel{SW}{F4} = \downarrow \qquad$$

The fast tempo signs in the left column below have neither "rotations" nor "fills" but Fill characters are used to select their shapes. The slow tempo signs in the centre column have no fills, but do have rotations. Headshapes like the one shown in the right column, cannot take (for example) Rotation 5 because it is physiologically impossible.

A complete list of valid and invalid sequences of base character, fill character, and rotation character, is given in a file at <a href="http://www.evertype.com/standards/iso10646/pdf/signwritingsequences.txt">http://www.evertype.com/standards/iso10646/pdf/signwritingsequences.txt</a>

- **5. Fills and Rotations in current implementations.** SignWriting has employed "triplets" of Base + Fill + Rotation since the "SignWriter" computer program (written by Richard Gleaves for the Apple IIe in 1985–1986 and later ported to DOS); are still used in the SignPuddle software presently maintained by Stephen E. Slevinski Jr. Although various methods of representing the triplets in data were used depending on platform, the data structure has been consistent and it has been possible to map this data from implementation to implementation. The UCS encoding differs from the previous encodings in "hard-coding" Fill-1 and Rotation-1 as "inherent" to the base character, but the structure remains the same and previous data can be reliably mapped to the structure of the encoding proposed here.
- **6. SignWriting Markup Language.** There are several flavors of SWML. Some versions are more complicated and included more semantic structure than does the SignPuddle implementation which is predominant today.

For the type of SWML which Steve Slevinski used in the past, see an example from SignPuddle 1.5; see http://www.signbank.org/signpuddle1.5/data/sgn/28/6810.swml

This older SWML overloads the "sign" entity for punctuation. There are only 2 elements: signs and symbols. For the current implementation, Steve Slevinski separated out punctuation. Here is an example in SignPuddle 1.6; The online example is at:

http://signbank.org/signpuddle1.6/dataformat.php?ui=1&sgn=4&ksw=M18x29S14c20n19xn29S271063xn11%20M18x33S1870an11x15S18701n18xn10S205008xn4S2e7340xn32%20S38800n36xn4

This shows the phrase "Hello World." in American Sign Language. This has 2 signs ("hello" and "world") and one punctuation mark (SIGNWRITING FULL STOP).



# **Data Options**

Markup	Lite 🕏
Symbol Identification	[mage 🕏
Data Content	Minimal
Display Parameters	
	View
M¥n19xn29 ₹3xn11	M ∝n11x15 ℃n18xn10 *8xn4 <b>9</b> 0xn32 <b></b>
Markup	Lite 💠
Symbol Identification	Preliminary Unicode 💠
Data Content	Minimal 💠
Display Parameters	
	View
M□□□n19xn29□□□3:	xn11 MDDDn11x15DDDn18xn10DDD8xn4DDD0xn32 DDD

**Figure 4.** Here, the underlying data structure of "Hello World" is shown. In the upper box the glyphs (hand, three-back-and-forth-arrows, hand, hand, circling-arrow, punctuation) are shown surrounded by SWML markup for two-dimensional display. In the lower box, the triplet of (in this case) PUA characters are shown (displayed as square boxes) for each of those entities, flanked by the same SWML markup.

The main two elements in the markup are "signbox" and "punctuation". The punctuation element always contains a single punctuation symbol. The "signbox" element can have 2 types of elements: "sym" as spatial symbols and "seq" as sequential symbols. The spatial symbol includes 2-dimensional positioning and are considered unordered. The sequential symbols are ordered, but do not include 2-dimensional positioning.

Earlier implementations used a set of standardized symbol IDs to identify each symbol: example "01-01-001-01-01" is  $\bot$ . The first 4 number parts are used for conversion to the modern symbol identification. A datafile with 652 rows is required for conversion. For conversion to Unicode, the value of the second column is revised starting from the hex value "1D700". A list of signs in this numeric format is given at http://signpuddle.net/iswa/data/iswa\_sym\_base.txt .

For symbol identification, existing software has 3 primary options: code, key, and Unicode.

• The code is a 16-bit number from 1 to 65,000. These codes are useful as primary keys in a database.

- The key is a string of 6 ASCII characters. This is used for the ASCII representation of SignWriting data
- The Unicode is a string of 3 characters (minus inherent Fill-1 and Rotation-1).

There are simple mathematical formulae for conversion between the symbol code, key, and Unicode. These identifications are isomorphic. For the structures above the symbols, there are 2 types of markup: lite and full. They both represent the same data. The "lite" markup uses strings for signs and punctuation marks. The full markup uses XML. In both markups, the symbols can be identified by code, key, Unicode, or even symbol ID.

- **6.1 Encoding models for SignWriting graphic characters.** A brief discussion as to possible encoding models is relevant to the UTC and WG2 decision about how to encode the characters. In principle, the following three methods could be used:
  - a) encode 37,811 characters
  - b) encode 522 handshapes (for left and right hands) and only 8 rotations
  - c) encode 261 handshapes and 16 rotations

Choice (a) is equivalent to the 16-bit symbol code. This was in fact the first encoding considered, but it was dropped because of search limitation in the design. *Searching* was the main reason for choice (c). We can easily search for a general symbol base, or a symbol base with a specific fill, a symbol base with a specific rotation, or an exact symbol. Choice (b) has not been preferred because it is the handshape which is the basic phoneme, not the hand per se. Moreover, complex signs involving hands touching and crossing the body would make it more difficult for end users than choice (c) does. And choice (c) is isomporphic to previous implementations.

Since the triplets Base + Fill +Rotation are part of the "entity set" in SWML, our proposal optimizes mapping between existing data and the new UCS data which will be created after the proposed characters are encoded. The concept of symbol identity is used in SWML. We have 3 equivalent symbol identifications: code, key, and Unicode. The optimized mapping of existing data is explicitly stated in the mathematical conversions between these symbol identifications.

- **7. Collating order.** For the purposes of the UCA and ISO/IEC 14651, the binary collation order in the code chart should be sufficient for the default tailorable template. Sorting SignWriting signs is far too complex for the default template.
- **8. Linebreaking.** Line breaks do not occur in the middle of a sign. Line breaks do not occur before punctuation. It would appear that SignWriting graphic characters should have the same linebreaking properties as Egyptian hieroglyphs.

## 9. Unicode Character Properties.

```
1D800; SIGNWRITING HAND-FIST INDEX; Lo; 0; L;;;; N;;;;

...

1DA86; SIGNWRITING LOCATION LIMBS DIGITS; Lo; 0; L;;;; N;;;;

1DA87; SIGNWRITING FULL STOP; Po; 0; L;;;; N;;;;

1DA88; SIGNWRITING SEMICOLON; Po; 0; L;;;; N;;;;

1DA89; SIGNWRITING COLON; Po; 0; L;;;; N;;;;

1DA98; SIGNWRITING PARENTHESIS; Po; 0; L;;;; N;;;;

1DA9B; SIGNWRITING FILL MODIFIER-2; Mn; 100; L;;;; N;;;;

1DA9C; SIGNWRITING FILL MODIFIER-3; Mn; 100; L;;;; N;;;;

1DA9C; SIGNWRITING FILL MODIFIER-4; Mn; 100; L;;;; N;;;;

1DA9F; SIGNWRITING FILL MODIFIER-6; Mn; 100; L;;;; N;;;;

1DA9F; SIGNWRITING ROTATION MODIFIER-2; Mn; 200; L;;;; N;;;;

1DAA1; SIGNWRITING ROTATION MODIFIER-3; Mn; 200; L;;;; N;;;;

1DAA3; SIGNWRITING ROTATION MODIFIER-4; Mn; 200; L;;;; N;;;;
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1DAA4; SIGNWRITING ROTATION MODIFIER-5; Mn; 200; L;;;; N;;;; 1DAA5; SIGNWRITING ROTATION MODIFIER-6; Mn; 200; L;;;; N;;;; 1DAA6; SIGNWRITING ROTATION MODIFIER-7; Mn; 200; L;;;; N;;;; 1DAA7; SIGNWRITING ROTATION MODIFIER-8; Mn; 200; L;;;; N;;;; 1DAA8; SIGNWRITING ROTATION MODIFIER-9; Mn; 200; L;;;; N;;;; 1DAA9; SIGNWRITING ROTATION MODIFIER-10; Mn; 200; L;;;; N;;;; 1DAAB; SIGNWRITING ROTATION MODIFIER-11; Mn; 200; L;;;; N;;;; 1DAAC; SIGNWRITING ROTATION MODIFIER-13; Mn; 200; L;;;; N;;;; 1DAAC; SIGNWRITING ROTATION MODIFIER-14; Mn; 200; L;;;; N;;;; 1DAAF; SIGNWRITING ROTATION MODIFIER-15; Mn; 200; L;;;; N;;;; 1DAAF; SIGNWRITING ROTATION MODIFIER-16; Mn; 200; L;;;; N;;;;
```

**10. Issues for future standardization.** As stated above, there are *no issues* with the character set proposed here. It has been stable since 2008, having been formalized after 34 years of development. Encoding of the characters proposed here will greatly facilitate discussion of SignWriting characters in the abstract in an interchangeable way, and will facilitate further work on the encoding model (yet to be determined) for the layout of SignWriting characters. To facilitate further discussion for future standardization, the issues regarding that encoding model are presented below. But those issues should *not* delay the encoding of the graphic characters proposed in this document.

**Encoding Model Issues** (as presented by SignWriting programmer Steve Slevinski).

The symbol set is stable and widely accepted. The main structures of signs and punctuations in lanes are understood. The major unresolved issue with encoding SignWriting deals with layout. While every sign has a defined center, how to define the sign itself is still unresolved.

The main issue of layout is how the writer will use the system. The balance between complexity and usability from the writer's perspective is of primary importance. It must always be remembered that the writer decides the symbols and their placement. Anything else is a different writing system.

The second issue of layout involve comparison. Signs can quickly be scanned for the symbols used; however, the relative position of the symbols require an analysis of the layout. The different layouts offer different approaches for evaluation.

The third issues of layout involves variability. There are two types of variability. The first, interpersonal variability, occurs when writers pick different symbols and different details. Inter-personal variability is part of the writing system that layout can not resolve. The second, intra-personal variability, occurs when writers use the same symbols, but in slightly different positions. With layout choices, it is possible to reduce the intra-personal variability, but this reduction may harm the writing system by imposing too many restrictions on the writer.

A fourth issues of layout involves elegance and beauty. Some may consider one type of layout to be superior to another based on subjective personal opinions. SignWriting is a unique script. The ultimate choice of layout should be based on the writer's experience, comparison, and variability.

In Figure 4 above, the various layout options are identified for the sign sentence "Hello World." which contains 2 signs and 1 punctuation mark.

*Freeform Layout.* With freeform layout, the writer decides what symbols to use and the exact symbol position. The freeform layout offers the greatest flexibility for the writer and the greatest intra-personal variability.

*Cartesian Coordinates.* Cartesian coordinates specify X and Y coordinates for the top, left of the symbol glyph. The coordinates of the symbols relate to the center of the canvas. This is the current method for writing. The writer is presented with a canvas and positions each symbol independently.

*Polar Coordinates.* Polar coordinates specify an angle and a distance from the center of the sign to the center of each symbol. The current cartesian data can be exported to this format.

**Restricted Layout.** It is possible to impose restrictions on symbol placement thereby limiting the intra-personal variability of sign spellings.

*Generic Restrictions.* Instead of allowing any coordinates, it may be possible to limit the options. For example, with polar coordinates, only allow specific angles and specific distances. This has not been evaluated.

**Specific Restrictions.** It may be possible to perform a statistical analysis of the symbols used to come up with a limited number of attachment points around each symbol and a small list of predefined distances between symbols. This information would be symbol specific and could greatly reduce the intra-personal variability if successfully implemented.

**Non-form Layout.** Some would argue that the writer should not determine the form of a sign, but should input linguistic analysis and let the layout/font manager determine the best representation for the written sign. This would change the script from a writing system into computer aided design, requiring concepts that are not part of the script and are not part of the writer's thought processes. The idea would make for an interesting project, but it is not about encoding SignWriting.

Absolute versus Relative Positioning. Any of the above layout options have two choices for positioning. The freeform layouts defined above use absolute positioning, where the position of each symbol relates to the center of the sign. It may be possible to interrelate the position of the symbols. Relative positioning would create some type of linked list for symbol positions. The position of each symbol would be defined based on the position of the previous symbol in the list. The viability and usability of relative positioning is unknown and has not been investigated.

- 11. Glyphs. It should also be noted that the TrueType reference glyphs in this preliminary proposal are quite imperfect and will be improved in due course.
- **12. Acknowledgements.** This project was made possible in part by a grant from the Center For Sutton Movement Writing.

### 13. Bibliography

The main online sources for Signwriting are:

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0	1D800	1D810	1D820	1D830	1D840	1D850	1D860	1D870	1D880	1D890	1D8A0	1D8B0	1D8C0	1D8D0	1D8E0
1	1D801	1D811	1D821	1D831	1D841	1D851	1D861	1D871	) 1D881	1D891	1D8A1	1D8B1	1D8C1	1D8D1	1D8E1
2	1D802	1D812	1D822	1D832	1D842	1D852	1D862	1D872	1D882	1D892	1D8A2	1D8B2	1D8C2	1D8D2	1D8E2
3	1D803	1D813	1D823	1D833	1D843	1D853	1D863	1D873	1D883	1D893	1D8A3	1D8B3	1D8C3	1D8D3	1D8E3
4	1D804	1D814	1D824	1D834	1D844	1D854	1D864	O 1D874	1D884	1D894	1D8A4	1D8B4	1D8C4	1D8D4	1D8E4
5	1D805	1D815	1D825	1D835	1D845	1D855	1D865	O 1D875	1D885	1D895	1D8A5	1D8B5	1D8C5	1D8D5	1D8E5
6	1D806	1D816	1D826	1D836	1D846	1D856	1D866	O 1D876	1D886	1D896	1D8A6	1D8B6	1D8C6	1D8D6	1D8E6
7	J 1D807	1D817	1D827	1D837	1D847	1D857	1D867	1D877	<b>8</b> 1D887	1D897	1D8A7	1D8B7	1D8C7	1D8D7	1D8E7
8	1D808	1D818	1D828	1D838	1D848	1D858	1D868	1D878	1D888	1D898	1D8A8	1D8B8	1D8C8	1D8D8	1D8E8
9	1D809	1D819	1D829	1D839	1D849	1D859	1D869	1D879	1D889	1D899	1D8A9	1D8B9	1D8C9	1D8D9	1D8E9
Α	1D80A	1D81A	1D82A	1D83A	1D84A	1D85A	1D86A	1D87A	1D88A	1D89A	1D8AA	1D8BA	1D8CA	1D8DA	1D8EA
В	1D80B	<b>3</b>	1D82B	1D83B	1D84B	1D85B	1D86B	1D87B	1D88B	1D89B	1D8AB	1D8BB	1D8CB	1D8DB	1D8EB
С	1D80C	1D81C	1D82C	1D83C	1D84C	1D85C	1D86C	1D87C	1D88C	1D89C	1D8AC	1D8BC	1D8CC	1D8DC	1D8EC
D	1D80D	1D81D	1D82D	1D83D	1D84D	1D85D	1D86D	1D87D	1D88D	1D89D	1D8AD	1D8BD	1D8CD	1D8DD	1D8ED
Ε	1D80E	1D81E	1D82E	1D83E	1D84E	1D85E	1D86E	1D87E	1D88E	1D89E	1D8AE	1D8BE	1D8CE	1D8DE	1D8EE
F	1D80F	1D81F	1D82F	1D83F	1D84F	1D85F	1D86F	) 1D87F	1D88F	1D89F	1D8AF	1D8BF	1D8CF	1D8DF	1D8EF

	1D8F	1D90	1D91	1D92	1D93	1D94	1D95	1D96	1D97	1D98	1D99	1D9A	1D9B	1D9C
0	1D8F0	1D900	1 <b>0</b> 1 (	1D920	1D930	1D940	1D950	1D960	1D970	1D980	1D990	1D9A0	1D9B0	1D9C0
1	1D8F1	1D901	<b>Q</b>	1D921	<b>₽↑</b> 1D931	1D941	1D951	<b>f</b> 1D961	1D971	1D981	<b>5</b>	1D9A1	1D9B1	1D9C1
2	1D8F2	1D902	<b>@@</b>	^ 1D922	<b>₽ ↑</b> 1D932	1D942	1D952	1D962	1D972	1D982	3 1D992	1D9A2	1D9B2	1D9C2
3	1D8F3	1D903	1 <b>Q</b>	1D923	1D933	1D943	1D953	1D963	1D973	1D983	3 1D993	1D9A3	1D9B3	1D9C3
4	1D8F4	1D904	1D914	1D924	1D934	1D944	1D954	1D964	1D974	1D984	3 1D994	1D9A4	1D9B4	1D9C4
5	1D8F5	<b>X</b> 1D905	1D915	1D925	1D935	1D945	1D955	↑ 1D965	1D975	1D985	<b>S</b> 1D995	1D9A5	1D9B5	1D9C5
6	1D8F6	<b>* *</b> 1D906	1D916	<b>☆</b> 1D926	<b>↑↓↑</b> 1D936	1D946	1D956	1D966	1D976	1D986	1D996	1D9A6	1D9B6	<b>1</b> D9C6
7	1D8F7	1D907	1D917	1D927	<b>↑↓↑</b> 1D937	1D947	1D957	1D967	1D977	1D987	<b>J</b>	1D9A7	1D9B7	1D9C7
8	1D8F8	<b>→</b> 1D908	1D918	1D928	<b>(</b>	\$\$ 1D948	1D958	1D968	1D978	<b>5</b> 1D988	1D998	1D9A8	1D9B8	1D9C8
9	1D8F9	<b>↑ ↑</b> 1D909	1D919	1D929	1D939	1D949	1D959	<u>↑</u>	1D979	5 1D989	1D999	1D9A9	1D9B9	1D9C9
Α	1D8FA	1D90A	1D91A	1D92A	1D93A	1D94A	1D95A	<b>↑↑</b> 1D96A	1D97A	5 1D98A	1D99A	1D9AA	1D9BA	1D9CA
В	1D8FB	## 1D90B	O 1D91B	1D92B	1D93B	1D94B	1D95B	1D96B	<b>7</b> 1D97B	) 1D98B	1D99B	1D9AB	1D9BB	1D9CB
С	1D8FC	## 1D90C	O 1D91C	1D92C	1D93C	1D94C	1D95C	<b>↓</b> ↑ 1D96C	1D97C	<b>5</b> 1D98C	\$ 1D99C	1D9AC	1D9BC	1D9CC
D	1D8FD	#  1D90D	<b>O O</b> 1D91D	1D92D	1D93D	1D94D	1D95D	1D96D	1D97D	1D98D	\$ 1D99D	J 1D9AD	1D9BD	1D9CD
Ε	1D8FE	1D90E	O O 1D91E	<u>↑</u> 1D92E	1D93E	1D94E	1D95E	1D96E	<b>1</b> D97E	1D98E	1D99E	3 1D9AE	1D9BE	1D9CE
F	1D8FF	<b>O O</b> 1D90F	1D91F	<b>↑↑</b>	1D93F	1D94F	1D95F	1D96F	1D97F	1D98F	<b>\$</b>	1D9AF	1D9BF	1D9CF

	1D9D	1D9E	1D9F	1DA0	1DA1	1DA2	1DA3	1DA4	1DA5	1DA6	1DA7	1DA8	1DA9	1DAA
0	1D9D0	1D9E0	<b>40</b>	1DA00	1DA10	1DA20	(O)	1DA40	1DA50	1DA60	1DA70	1DA80		
1	1D9D1	1D9E1	1D9F1	1DA01	1DA11	1DA21	1DA31	1DA41	1DA51	1DA61	1DA71	1DA81		SW R2
2	1D9D2	1D9E2	. <b>&lt;&lt;.</b> 1D9F2	1DA02	1DA12	1DA22	* 1DA32	1DA42	1DA52	1DA62	1DA72	1DA82		SW R3
3	1D9D3	1D9E3	1D9F3	1DA03	1DA13	1DA23	‡ 1DA33	1DA43	1DA53	1DA63	1DA73	1DA83		SW R4
4 -	1D9D4	1D9E4	1D9F4	1DA04	1DA14	1DA24	1DA34	1DA44	1DA54	1DA64	1DA74	1DA84		SW   R5
5	1D9D5	<b>5</b>	1D9F5	1DA05	1DA15	1DA25	1DA35	1DA45	1DA55	1DA65	1DA75	1DA85		SW R6
6	1D9D6	1D9E6	1D9F6	() 1DA06	1DA16	1DA26	1DA36	₩ 1DA46	1DA56	1DA66	1DA76	1DA86		SW   R7
7	1D9D7	1D9E7	<b>1</b> D9F7	1DA07	1DA17	1DA27	1DA37	1DA47	1DA57	1DA67	1DA77	1DA87		SW R8
8	1D9D8	1D9E8	1D9F8	1DA08	(DA18	1DA28	<b>\</b> \/ 1DA38	1DA48	1DA58	1DA68	1DA78	1DA88		SW R9
9	1D9D9	<b>1</b> D9E9	1D9F9	1DA09	1DA19	1DA29	<b>P</b> 1DA39	1DA49	1DA59	1DA69	1DA79	1DA89		SW R10
A	1D9DA	1D9EA	<b>≈</b> 1D9FA	1DA0A	O O	1DA2A	<b>6</b> 1DA3A	1DA4A	1DA5A	1DA6A	1DA7A	1DA8A		SW R 11
В	1D9DB	1D9EB	1D9FB	1DA0B	DA1B	1DA2B	1DA3B	1DA4B	1DA5B	1DA6B	1DA7B	1DA8B	SW F2	SW R12
C	1D9DC	1D9EC	1D9FC	1DA0C	(DE)	1DA2C	1DA3C	1DA4C	1DA5C	1DA6C	1DA7C		SW F3	SW R13
D	1D9DD	1D9ED	1D9FD	1DA0D	⊕ ⊕ 1DA1D	1DA2D	1DA3D	1DA4D	1DA5D	1DA6D	1DA7D		SW F4	SW R14
E	1D9DE	1D9EE	1D9FE	1DA0E	1DA1E	1DA2E	1DA3E	1DA4E	1DA5E	1DA6E	1DA7E		<b>SW F</b> 5	SW R15
F	1D9DF	1D9EF	1D9FF	1DA0F	1DA1F	1DA2F	1DA3F	<b>★</b> 1DA4F	(DA5F	<b>↑</b>	1DA7F		<b>SW F6</b> 1DA9F	SW R16

Handshapes with index finger	1D827	占	SIGNWRITING HAND-FIST INDEX MIDDLE UP SPREAD THUMB FORWARD
1D800   SIGNWRITING HAND-FIST INDEX 1D801   SIGNWRITING HAND-CIRCLE INDEX	1D828	Э	SIGNWRITING HAND-FIST INDEX MIDDLE THUMB CUPPED
1D802  SIGNWRITING HAND-CUP INDEX	1D829	₠	SIGNWRITING HAND-FIST INDEX MIDDLE THUMB CIRCLED
1D804 SIGNWRITING HAND-HINGE INDEX	1D82A	₽	SIGNWRITING HAND-FIST INDEX MIDDLE THUMB HOOKED
	1D82B	<b>1</b>	SIGNWRITING HAND-FIST INDEX MIDDLE
1D805 SIGNWRITING HAND-ANGLE INDEX 1D806 SIGNWRITING HAND-FIST INDEX BENT 1D807 SIGNWRITING HAND-CIRCLE INDEX BENT 1D808 SIGNWRITING HAND-FIST THUMB UNDER	1D82C	≯□	THUMB HINGED SIGNWRITING HAND-FIST THUMB BETWEEN
INDEX BENT  1D809	1D82D	∄	INDEX MIDDLE STRAIGHT SIGNWRITING HAND-FIST INDEX MIDDLE
KNUCKLE  1D80A   SIGNWRITING HAND-FIST INDEX CUPPED	1D82E	∄	CONJOINED THUMB SIDE SIGNWRITING HAND-FIST INDEX MIDDLE
1D80B G SIGNWRITING HAND-FIST INDEX HINGED	1D82F	∄	CONJOINED THUMB SIDE CONJOINED SIGNWRITING HAND-FIST INDEX MIDDLE
1D80C SIGNWRITING HAND-FIST INDEX HINGED LOW 1D80D SIGNWRITING HAND-CIRCLE INDEX HINGE	1D830	심	CONJOINED THUMB SIDE BENT SIGNWRITING HAND-FIST MIDDLE THUMB
Handshapes with index and middle	1D831	<b>4</b> H	HOOKED INDEX UP SIGNWRITING HAND-FIST INDEX THUMB
fingers	1D832	- %	HOOKED MIDDLE UP SIGNWRITING HAND-FIST INDEX MIDDLE
1D80E   SIGNWRITING HAND-FIST INDEX MIDDLE 1D80F   SIGNWRITING HAND-CIRCLE INDEX MIDDLE	1D833	<u>۸</u>	CONJOINED HINGED THUMB SIDE SIGNWRITING HAND-FIST INDEX MIDDLE
1D810 🖰 SIGNWRITING HAND-FIST INDEX MIDDLE BENT	1D834	H	CROSSED THUMB SIDE SIGNWRITING HAND-FIST INDEX MIDDLE
RAISED KNUCKLES	1D835	<b>₽</b>	CONJOINED THUMB FORWARD SIGNWRITING HAND-FIST INDEX MIDDLE
1D812 SIGNWRITING HAND-FIST INDEX MIDDLE HINGED	1D836	_	CONJOINED CUPPED THUMB FORWARD SIGNWRITING HAND-FIST MIDDLE THUMB
1D813 A SIGNWRITING HAND-FIST INDEX UP MIDDLE HINGED	1D837	4	CUPPED INDEX UP
1D814 de SIGNWRITING HAND-FIST INDEX HINGED MIDDLE UP		л Д	SIGNWRITING HAND-FIST INDEX THUMB CUPPED MIDDLE UP
1D815   SIGNWRITING HAND-FIST INDEX MIDDLE CONJOINED	1D838	4□	SIGNWRITING HAND-FIST MIDDLE THUMB CIRCLED INDEX UP
1D816 B SIGNWRITING HAND-FIST INDEX MIDDLE CONJOINED INDEX BENT	1D839	фП	SIGNWRITING HAND-FIST MIDDLE THUMB CIRCLED INDEX HINGED
1D817   SIGNWRITING HAND-FIST INDEX MIDDLE CONJOINED MIDDLE BENT	1D83A	<b>4</b> ₽	SIGNWRITING HAND-FIST INDEX THUMB ANGLED OUT MIDDLE UP
1D818 A SIGNWRITING HAND-FIST INDEX MIDDLE CONJOINED CUPPED	1D83B	4	SIGNWRITING HAND-FIST INDEX THUMB ANGLED IN MIDDLE UP
1D819  SIGNWRITING HAND-FIST INDEX MIDDLE CONJOINED HINGED	1D83C	ᆔ	SIGNWRITING HAND-FIST INDEX THUMB CIRCLED MIDDLE UP
1D81A 👌 SIGNWRITING HAND-FIST INDEX MIDDLE CROSSED	1D83D	IJ	SIGNWRITING HAND-FIST INDEX MIDDLE THUMB CONJOINED HINGED
1D81B SIGNWRITING HAND-CIRCLE INDEX MIDDLE CROSSED	1D83E	₹□	SIGNWRITING HAND-FIST INDEX MIDDLE THUMB ANGLED OUT
1D81C A SIGNWRITING HAND-FIST MIDDLE BENT OVER INDEX	1D83F	₹□	SIGNWRITING HAND-FIST INDEX MIDDLE THUMB ANGLED
1D81D A SIGNWRITING HAND-FIST INDEX BENT OVER MIDDLE	1D840	A	SIGNWRITING HAND-FIST MIDDLE THUMB ANGLED OUT INDEX UP
Handshapes with index and middle	1D841	₽	SIGNWRITING HAND-FIST MIDDLE THUMB ANGLED OUT INDEX CROSSED
fingers and thumb	1D842	4	SIGNWRITING HAND-FIST MIDDLE THUMB ANGLED INDEX UP
1D81E  SIGNWRITING HAND-FIST INDEX MIDDLE THUMB	1D843	4	SIGNWRITING HAND-FIST INDEX THUMB HOOKED MIDDLE HINGED
1D81F 👌 SIGNWRITING HAND-CIRCLE INDEX MIDDLE	Han	dek	napes with four fingers
THUMB  1D820  SIGNWRITING HAND-FIST INDEX MIDDLE	1D844	界	SIGNWRITING HAND-FLAT FOUR FINGERS
STRAIGHT THUMB BENT  1D821	1D845	₹ <u>7</u>	SIGNWRITING HAND-FLAT FOUR FINGERS BENT
THUMB STRAIGHT  1D822	1D846	B	SIGNWRITING HAND-FLAT FOUR FINGERS HINGED
THUMB BENT  1D823 SIGNWRITING HAND-FIST INDEX MIDDLE	1D847	Ġ	SIGNWRITING HAND-FLAT FOUR FINGERS CONJOINED
HINGED SPREAD THUMB SIDE  1D824  SIGNWRITING HAND-FIST INDEX UP MIDDLE	1D848	Ħ	SIGNWRITING HAND-FLAT FOUR FINGERS CONJOINED SPLIT
HINGED THUMB SIDE	1D849	<b>F</b> O	SIGNWRITING HAND-CLAW FOUR FINGERS

1D849

(http://www.unicode.org/unibook/)

SIGNWRITING HAND-CLAW FOUR FINGERS CONJOINED

1D84A G SIGNWRITING HAND-FIST FOUR FINGERS CONJOINED BENT

1D825 👍

1D826 占

SIGNWRITING HAND-FIST INDEX UP MIDDLE HINGED THUMB CONJOINED

SIGNWRITING HAND-FIST INDEX HINGED MIDDLE UP THUMB SIDE

1D84B – SIGNWRITING HAND-HINGE FOUR FINGERS	1D87C \(\sigma\) SIGNWRITING HAND-HINGE OPEN THUMB
CONJOINED	FORWARD  1D87D TI SIGNWRITING HAND-HINGE
Handshapes with five fingers	1D87E SIGNWRITING HAND-HINGE SMALL
1D84C  ⊀ SIGNWRITING HAND-FLAT FIVE FINGERS	1D87F \(\sum_{\text{SIGNWRITING HAND-HINGE OPEN THUMB SIDE}}\)
SPREAD	1D880 SIGNWRITING HAND-HINGE THUMB SIDE
1D84D 👑, SIGNWRITING HAND-FLAT HEEL FIVE FINGERS	1D881 SIGNWRITING HAND-HINGE OPEN NO THUMB
— SPREAD 1D84E ※↑ SIGNWRITING HAND-FLAT FIVE FINGERS	1D882 ¬ SIGNWRITING HAND-HINGE NO THUMB
SPREAD FOUR BENT	1D883 👈 SIGNWRITING HAND-HINGE THUMB SIDE TOUCHING INDEX
1D84F 😅, SIGNWRITING HAND-FLAT HEEL FIVE FINGERS	1D884 SIGNWRITING HAND-HINGE THUMB BETWEEN
SPREAD FOUR BENT	MIDDLE RING
1D850 滑 SIGNWRITING HAND-FLAT FIVE FINGERS SPREAD BENT	1D885 ¬ SIGNWRITING HAND-ANGLE
1D851 , SIGNWRITING HAND-FLAT HEEL FIVE FINGERS SPREAD BENT	Handshapes with little finger
1D852   ★ SIGNWRITING HAND-FLAT FIVE FINGERS	1D886 🕆 SIGNWRITING HAND-FIST INDEX MIDDLE RING
SPREAD THUMB FORWARD	1D887 SIGNWRITING HAND-CIRCLE INDEX MIDDLE RING
1D853 ③ SIGNWRITING HAND-CUP FIVE FINGERS SPREAD	1D888 🖞 SIGNWRITING HAND-HINGE INDEX MIDDLE
1D854 3 SIGNWRITING HAND-CUP FIVE FINGERS	RING
SPREAD OPEN	1D889 🖞 SIGNWRITING HAND-ANGLE INDEX MIDDLE
1D855 SIGNWRITING HAND-HINGE FIVE FINGERS SPREAD OPEN	RING  1D88A  SIGNWRITING HAND-HINGE LITTLE
1D856 SIGNWRITING HAND-OVAL FIVE FINGERS	1D88B SIGNWRITING HAND-FIST INDEX MIDDLE RING
SPREAD	BENT BENT
1D857 TSIGNWRITING HAND-FLAT FIVE FINGERS SPREAD HINGED	1D88C A SIGNWRITING HAND-FIST INDEX MIDDLE RING CONJOINED
1D858 The SIGNWRITING HAND-FLAT FIVE FINGERS SPREAD HINGED THUMB SIDE	1D88D \(\frac{1}{2}\) SIGNWRITING HAND-HINGE INDEX MIDDLE RING CONJOINED
1D859 SIGNWRITING HAND-FLAT FIVE FINGERS	1D88E  SIGNWRITING HAND-FIST LITTLE DOWN
SPREAD HINGED NO THUMB	1D88F SIGNWRITING HAND-FIST LITTLE DOWN
1D85A 🐧 SIGNWRITING HAND-FLAT	RIPPLE STRAIGHT
1D85B G SIGNWRITING HAND-FLAT BETWEEN PALM	1D890 省, SIGNWRITING HAND-FIST LITTLE DOWN RIPPLE CURVED
FACINGS  1D85C SIGNWRITING HAND-FLAT HEEL	1D891 A SIGNWRITING HAND-FIST LITTLE DOWN
1D85D SIGNWRITING HAND-FLAT THUMB SIDE	OTHERS CIRCLED
1D85E, SIGNWRITING HAND-FLAT HEEL THUMB SIDE	1D892 🗖 SIGNWRITING HAND-FIST LITTLE UP
1D85F 🖒 SIGNWRITING HAND-FLAT THUMB BENT	1D893 SIGNWRITING HAND-FIST THUMB UNDER
1D860 🐧 SIGNWRITING HAND-FLAT THUMB FORWARD	1D894 SIGNWRITING HAND-CIRCLE LITTLE UP
1D861 🗓 SIGNWRITING HAND-FLAT SPLIT INDEX	1D895 SIGNWRITING HAND-CIRCLE LITTLE UP
THUMB SIDE  1D862 M SIGNWRITING HAND-FLAT SPLIT CENTER	1D896 SIGNWRITING HAND-ANGLE LITTLE UP
1D862 ☐ SIGNWRITING HAND-FLAT SPLIT CENTER  1D863	1D897 📅 SIGNWRITING HAND-FIST LITTLE RAISED
THUMB SIDE	KNUCKLE
1D864  SIGNWRITING HAND-FLAT SPLIT CENTER	1D898 🔓 SIGNWRITING HAND-FIST LITTLE BENT 1D899 🥱 SIGNWRITING HAND-FIST LITTLE TOUCHES
THUMB SIDE BENT  1D865 Y SIGNWRITING HAND-FLAT SPLIT LITTLE	1D899 SIGNWRITING HAND-FIST LITTLE TOUCHES THUMB
1D865 1 SIGNWRITING HAND-FLAT SPLIT LITTLE 1D866 1 SIGNWRITING HAND-CLAW	1D89A 🕁 SIGNWRITING HAND-FIST LITTLE THUMB
1D867 To SIGNWRITING HAND-CLAW THUMB SIDE	1D89B → SIGNWRITING HAND-HINGE LITTLE THUMB
1D868 ¬ SIGNWRITING HAND-CLAW NO THUMB	1D89C ☐ SIGNWRITING HAND-FIST LITTLE INDEX
1D869 SIGNWRITING HAND-CLAW THUMB FORWARD	THUMB  1D89D → SIGNWRITING HAND-HINGE LITTLE INDEX
1D86A SIGNWRITING HAND-HOOK CURLICUE	THUMB
1D86B SIGNWRITING HAND-HOOK	1D89E 👈 SIGNWRITING HAND-ANGLE LITTLE INDEX
1D86C SIGNWRITING HAND-CUP OPEN 1D86D SIGNWRITING HAND-CUP	THUMB INDEX THUMB OUT
1D86E This SIGNWRITING HAND-CUP OPEN THUMB SIDE	1D89F 🕁 SIGNWRITING HAND-ANGLE LITTLE INDEX THUMB INDEX THUMB
1D86F 7 SIGNWRITING HAND-CUP THUMB SIDE	1D8A0 \(\frac{1}{2}\) SIGNWRITING HAND-FIST LITTLE INDEX
1D870 TI SIGNWRITING HAND-CUP OPEN NO THUMB	1D8A1 SIGNWRITING HAND-CIRCLE LITTLE INDEX
1D871 🕤 SIGNWRITING HAND-CUP NO THUMB	1D8A2
1D872 SIGNWRITING HAND-CUP OPEN THUMB	1D8A3 🚽 SIGNWRITING HAND-ANGLE LITTLE INDEX
FORWARD  1D873   SIGNWRITING HAND-CUP THUMB FORWARD	Handshapes with ring finger
1D874 SIGNWRITING HAND-CURLICUE OPEN	1D8A4 A SIGNWRITING HAND-FIST INDEX MIDDLE
1D875 SIGNWRITING HAND-CURLICUE	LITTLE LITTLE
1D876 O SIGNWRITING HAND-CIRCLE	1D8A5 SIGNWRITING HAND-CIRCLE INDEX MIDDLE
1D877 SIGNWRITING HAND-OVAL	LITTLE
1D878 SIGNWRITING HAND-OVAL THUMB SIDE	1D8A6 🖞 SIGNWRITING HAND-HINGE INDEX MIDDLE LITTLE
1D879 SIGNWRITING HAND-OVAL NO THUMB 1D87A SIGNWRITING HAND-OVAL THUMB FORWARD	1D8A7 🕺 SIGNWRITING HAND-HINGE RING
1D87B SIGNWRITING HAND-OVAL THUMB FORWARD  1D87B SIGNWRITING HAND-HINGE OPEN	D STATE OF THE STA
LILE P STOTEMENT THE STEEL OF EACH	

1D8A8 🕎	SIGNWRITING HAND-ANGLE INDEX MIDDLE LITTLE	1D8D3	_	SIGNWRITING HAND-ANGLE MIDDLE RING LITTLE IN
1D8A9 🐴	SIGNWRITING HAND-FIST INDEX MIDDLE CROSS LITTLE	1D8D4	4	SIGNWRITING HAND-ANGLE MIDDLE RING LITTLE
1D8AA 👌	SIGNWRITING HAND-CIRCLE INDEX MIDDLE CROSS LITTLE	1D8D5	D	SIGNWRITING HAND-CIRCLE MIDDLE RING LITTLE BENT
1D8AB	SIGNWRITING HAND-FIST RING DOWN	1D8D6	#	SIGNWRITING HAND-CLAW MIDDLE RING LITTLE CONJOINED
_	SIGNWRITING HAND-HINGE RING DOWN INDEX THUMB HOOK MIDDLE	1D8D7	₩	SIGNWRITING HAND-CLAW MIDDLE RING
<b>.</b>	SIGNWRITING HAND-ANGLE RING DOWN MIDDLE THUMB INDEX CROSS	1D8D8	¥	LITTLE CONJOINED SIDE SIGNWRITING HAND-HOOK MIDDLE RING
1D8AE 🗅 1D8AF 🛅	SIGNWRITING HAND-FIST RING UP SIGNWRITING HAND-FIST RING RAISED	1D8D9	*	LITTLE CONJOINED OUT SIGNWRITING HAND-HOOK MIDDLE RING
1D8B0 占	KNUCKLE SIGNWRITING HAND-FIST RING LITTLE	1D8DA	4	LITTLE CONJOINED IN SIGNWRITING HAND-HOOK MIDDLE RING
1D8B1 √5	SIGNWRITING HAND-CIRCLE RING LITTLE	10000		LITTLE CONJOINED
1D8B2 👌	SIGNWRITING HAND-OVAL RING LITTLE	1D8DB	Ϋ́	SIGNWRITING HAND-HINGE INDEX HINGED
1D8B3 🛧 1D8B4 占	SIGNWRITING HAND-ANGLE RING LITTLE	1D8DC 1D8DD		SIGNWRITING HAND-FIST INDEX THUMB SIDE
1D8B4 占	SIGNWRITING HAND-FIST RING MIDDLE	טטטטו	J	SIGNWRITING HAND-HINGE INDEX THUMB SIDE
1D8B5 🚡	SIGNWRITING HAND-FIST RING MIDDLE	1D8DE	┙	SIGNWRITING HAND-FIST INDEX THUMB SIDE
40000	CONJOINED	IDODL	D'	THUMB DIAGONAL
1D8B6 💍	SIGNWRITING HAND-FIST RING MIDDLE RAISED KNUCKLES	1D8DF	$\exists$	SIGNWRITING HAND-FIST INDEX THUMB SIDE THUMB CONJOINED
1D8B7 님	SIGNWRITING HAND-FIST RING INDEX	1D8E0	$\forall$	SIGNWRITING HAND-FIST INDEX THUMB SIDE
1D8B8	SIGNWRITING HAND-FIST RING THUMB	15020	עו	THUMB BENT
1D8B9 ₽	SIGNWRITING HAND-HOOK RING THUMB	1D8E1	라	SIGNWRITING HAND-FIST INDEX THUMB SIDE INDEX BENT
	hapes with middle finger SIGNWRITING HAND-FIST INDEX RING LITTLE	1D8E2	급	SIGNWRITING HAND-FIST INDEX THUMB SIDE BOTH BENT
1D8BA 出	SIGNWRITING HAND-CIRCLE INDEX RING	1D8E3	₫	SIGNWRITING HAND-FIST INDEX THUMB SIDE INDEX HINGE
1D8BC 슁	LITTLE SIGNWRITING HAND-CURLICUE INDEX RING	1D8E4	d	SIGNWRITING HAND-FIST INDEX THUMB
1D8BD ∦	LITTLE ON SIGNWRITING HAND-HOOK INDEX RING	1D8E5	3	FORWARD INDEX STRAIGHT SIGNWRITING HAND-FIST INDEX THUMB
1D8BE ∦	LITTLE OUT SIGNWRITING HAND-HOOK INDEX RING	1D8E6	Ь	FORWARD INDEX BENT SIGNWRITING HAND-FIST INDEX THUMB HOOK
1D8BF ≱∜	LITTLE IN SIGNWRITING HAND-HOOK INDEX RING	1D8E7	_	SIGNWRITING HAND-FIST INDEX THUMB CURLICUE
	LITTLE UNDER	1D8E8		SIGNWRITING HAND-FIST INDEX THUMB
1D8C0 出 1D8C1 出	SIGNWRITING HAND-CUP INDEX RING LITTLE SIGNWRITING HAND-HINGE INDEX RING	1D8E9	Ħ	CURVE THUMB INSIDE SIGNWRITING HAND-CLAW INDEX THUMB
_	LITTLE	1D8EA	ω_	CURVE THUMB INSIDE SIGNWRITING HAND-FIST INDEX THUMB
1D8C2 📲	SIGNWRITING HAND-ANGLE INDEX RING LITTLE OUT		_	CURVE THUMB UNDER
1D8C3 ◀	SIGNWRITING HAND-ANGLE INDEX RING LITTLE	1D8EB		CIRCLE
1D8C4 H	SIGNWRITING HAND-FIST MIDDLE DOWN	1D8EC	$\Xi$	SIGNWRITING HAND-CUP INDEX THUMB
1D8C5 - 7		1D8EE	ĹΠ	SIGNWRITING HAND UPIGE DIDEX THUMB OPEN
1D8C6 1D8C7	SIGNWRITING HAND-FIST MIDDLE UP	IDOEE	П	SIGNWRITING HAND-HINGE INDEX THUMB OPEN
1D8C7 &	SIGNWRITING HAND-CIRCLE MIDDLE UP	1D8FF	_	SIGNWRITING HAND-HINGE INDEX THUMB
1D8C8 🚊	SIGNWRITING HAND-FIST MIDDLE RAISED	IDOLI	ш	LARGE
1D8C9 人	KNUCKLE SIGNWRITING HAND-FIST MIDDLE UP THUMB	1D8F0	╗	SIGNWRITING HAND-HINGE INDEX THUMB
1D8C9 B	SIDE	1D8F1	7	SIGNWRITING HAND-HINGE INDEX THUMB
1D8CA 🔓	SIGNWRITING HAND-HOOK MIDDLE THUMB		_	SMALL
1D8CB 长		1D8F2	$\Delta$	SIGNWRITING HAND-ANGLE INDEX THUMB
_	LITTLE	1D8F3	<del></del>	OUT SIGNWRITING HAND-ANGLE INDEX THUMB IN
1D8CC 占				SIGNWRITING HAND-ANGLE INDEX THUMB
Hands	hapes with index finger and	Han	leh	napes with thumb
thumb				•
1D8CD 出	SIGNWRITING HAND-FIST MIDDLE RING LITTLE	1D8F5 1D8F6	_	SIGNWRITING HAND FIST THUMB
1D8CE	SIGNWRITING HAND-CIRCLE MIDDLE RING	1D8F7	□- □	SIGNWRITING HAND-FIST THUMB SIDE
1D8CF 发	LITTLE SIGNWRITING HAND-CURLICUE MIDDLE RING LITTLE ON	1D8F8		DIAGONAL SIGNWRITING HAND-FIST THUMB SIDE
1D8D0 🔻	LITTLE ON SIGNWRITING HAND-CUP MIDDLE RING LITTLE	1D8F9	_	CONJOINED SIGNWRITING HAND-FIST THUMB SIDE BENT
1D8D1	SIGNWRITING HAND-HINGE MIDDLE RING	1D8FA	₽	SIGNWRITING HAND-FIST THUMB SIDE BENT SIGNWRITING HAND-FIST THUMB FORWARD
	LITTLE	1D8FB		SIGNWRITING HAND-FIST THUMB BETWEEN
1D8D2 →	SIGNWRITING HAND-ANGLE MIDDLE RING LITTLE OUT			INDEX MIDDLE

	•			
1D8FC	SIGNWRITING HAND-FIST THUMB BETWEEN MIDDLE RING	Mov	em	ent indicators
1D8FD	SIGNWRITING HAND-FIST THUMB BETWEEN	1D92A	ŧ	SIGNWRITING MOVEMENT-WALLPLANE SINGLE STRAIGHT SMALL
1D8FE d	RING LITTLE SIGNWRITING HAND-FIST THUMB UNDER TWO FINGERS	1D92B	1	SIGNWRITING MOVEMENT-WALLPLANE SINGLE STRAIGHT MEDIUM
1D8FF		1D92C	1	SIGNWRITING MOVEMENT-WALLPLANE SINGLE STRAIGHT LARGE
1D900 <u>m</u>	SIGNWRITING HAND-FIST THUMB UNDER	1D92D		SIGNWRITING MOVEMENT-WALLPLANE SINGLE STRAIGHT LARGEST
1D901 <u>m</u>		1D92E	<u> </u>	SIGNWRITING MOVEMENT-WALLPLANE SINGLE WRIST FLEX
1D902 🛫	FOUR FINGERS  SIGNWRITING HAND-FIST THUMB OVER FOUR RAISED KNUCKLES	1D92F	ŧŧ	SIGNWRITING MOVEMENT-WALLPLANE DOUBLE STRAIGHT
1D903	SIGNWRITING HAND-FIST	1D930	<u>††</u>	SIGNWRITING MOVEMENT-WALLPLANE DOUBLE WRIST FLEX
1D904 _		1D931	ψŧ	SIGNWRITING MOVEMENT-WALLPLANE DOUBLE ALTERNATING
40005	ct movement indicators	1D932	ψŧ	SIGNWRITING MOVEMENT-WALLPLANE
•	SIGNWRITING CONTACT-TOUCH SINGLE	45000		DOUBLE ALTERNATING WRIST FLEX
	★ SIGNWRITING CONTACT-TOUCH MULTIPLE     SIGNWRITING CONTACT-TOUCH BETWEEN	1D933		SIGNWRITING MOVEMENT-WALLPLANE CROSS
	SIGNWRITING CONTACT-TOUCH BETWEEN SIGNWRITING CONTACT-GRASP SINGLE	1D934	***	SIGNWRITING MOVEMENT-WALLPLANE TRIPLE STRAIGHT MOVEMENT
	SIGNWRITING CONTACT-GRASP MULTIPLE     SIGNWRITING CONTACT-GRASP MULTIPLE	1D935	***	SIGNWRITING MOVEMENT-WALLPLANE
	SIGNWRITING CONTACT-GRASP BETWEEN	15000	000	TRIPLE WRIST FLEX
1D90B #	SIGNWRITING CONTACT-STRIKE SINGLE	1D936	ψψ¢	SIGNWRITING MOVEMENT-WALLPLANE TRIPLE ALTERNATING
		1D937	<del>††</del> †	SIGNWRITING MOVEMENT-WALLPLANE
1D90E @	SIGNWRITING CONTACT-BRUSH SINGLE	1D938	ŧ	TRIPLE ALTERNATING WRIST FLEX SIGNWRITING MOVEMENT-WALLPLANE BEND
	SIGNWRITING CONTACT-BRUSH MULTIPLE     SIGNWRITING CONTACT-BRUSH BETWEEN	40000	•	SMALL
1D911 @	•	1D939	Ţ	SIGNWRITING MOVEMENT-WALLPLANE BEND MEDIUM
	SIGNWRITING CONTACT-RUB MULTIPLE SIGNWRITING CONTACT-RUB BETWEEN	1D93A	1	SIGNWRITING MOVEMENT-WALLPLANE BEND LARGE
1D914 =	SIGNWRITING CONTACT-SURFACE SYMBOLS	1D93B	Ł	SIGNWRITING MOVEMENT-WALLPLANE
1D915 ⊕		1D93C	Ł	CORNER SMALL SIGNWRITING MOVEMENT-WALLPLANE
45040	movement indicators	1D93D	t	CORNER MEDIUM SIGNWRITING MOVEMENT-WALLPLANE
1D916 •	SIGNWRITING FINGER-SQUEEZE LARGE SINGLE	1D93E	_	CORNER LARGE SIGNWRITING MOVEMENT-WALLPLANE
1D917 •	SIGNWRITING FINGER-SQUEEZE SMALL SINGLE	1D93F	•	CORNER ROTATION
1D918 <b>●</b>	<ul> <li>SIGNWRITING FINGER-SQUEEZE LARGE MULTIPLE</li> </ul>			SIGNWRITING MOVEMENT-WALLPLANE CHECK SMALL
	<ul> <li>SIGNWRITING FINGER-SQUEEZE SMALL MULTIPLE</li> </ul>	1D940	Þ	SIGNWRITING MOVEMENT-WALLPLANE CHECK MEDIUM
1D91A	SIGNWRITING FINGER-SQUEEZE SEQUENTIAL	1D941	V	SIGNWRITING MOVEMENT-WALLPLANE CHECK LARGE
1D91B o		1D942	Î	SIGNWRITING MOVEMENT-WALLPLANE BOX SMALL
1D91D <b>o</b>	SIGNWRITING FINGER-FLICK LARGE MULTIPLE SIGNWRITING FINGER-FLICK SMALL MULTIPLE	1D943	ÎЦ	SIGNWRITING MOVEMENT-WALLPLANE BOX MEDIUM
1D91F 🦠	SIGNWRITING FINGER-FLICK SEQUENTIAL	1D944	Ù	SIGNWRITING MOVEMENT-WALLPLANE BOX LARGE
40004	•o SIGNWRITING FINGER-SQUEEZE FLICK ALTERNATING	1D945	ħ	SIGNWRITING MOVEMENT-WALLPLANE ZIGZAG SMALL
1D921 <b>☆</b> 1D922 ^		1D946	Ħ	SIGNWRITING MOVEMENT-WALLPLANE
1D923 أَ 1D924	SIGNWRITING FINGER-HINGE UP SEQUENTIAL SIGNWRITING FINGER-HINGE DOWN	1D947	Ħ	ZIGZAG MEDIUM SIGNWRITING MOVEMENT-WALLPLANE
40000	SEQUENTIAL	1D948	*	ZIGZAG LARGE SIGNWRITING MOVEMENT-WALLPLANE PEAKS
	ALTERNATING LARGE	1D949	<b>\$</b>	SMALL SIGNWRITING MOVEMENT-WALLPLANE PEAKS
1D926 ×	ALTERNATING SMALL	1D94A	_	MEDIUM SIGNWRITING MOVEMENT-WALLPLANE PEAKS
1D927 <u>⊼</u>	SCISSORS	1D94B	"	LARGE SIGNWRITING TRAVEL-WALLPLANE
1D928 ⋴	SIGNWRITING FINGER-WALLPLANE FINGER CONTACT	1D94C	-0.	SIGNWRITING TRAVEL-WALLPLANE SIGNWRITING TRAVEL-WALLPLANE
1D929 <b>↑</b>	SIGNWRITING FINGER-FLOORPLANE FINGER CONTACT		-117	ROTATION-WALLPLANE DOUBLE
		1D94D	*	SIGNWRITING TRAVEL-WALLPLANE ROTATION-WALLPLANE ALTERNATING

1D94E	₽	SIGNWRITING TRAVEL-WALLPLANE ROTATION-FLOORPLANE SINGLE	1D974	£	SIGNWRITING MOVEMENT-FLOORPLANE CORNER SMALL
1D94F	\$	SIGNWRITING TRAVEL-WALLPLANE ROTATION-FLOORPLANE DOUBLE	1D975	Ĺ	SIGNWRITING MOVEMENT-FLOORPLANE CORNER MEDIUM
1D950	₫,	SIGNWRITING TRAVEL-WALLPLANE ROTATION-FLOORPLANE ALTERNATING	1D976	Ĺ	SIGNWRITING MOVEMENT-FLOORPLANE CORNER LARGE
1D951 1D952	<b>*</b>	SIGNWRITING TRAVEL-WALLPLANE SHAKING SIGNWRITING TRAVEL-WALLPLANE ARM	1D977	<b>†</b>	SIGNWRITING MOVEMENT-FLOORPLANE CHECK
1D953	₩	SPIRAL SINGLE SIGNWRITING TRAVEL-WALLPLANE ARM	1D978	t	SIGNWRITING MOVEMENT-FLOORPLANE BOX SMALL
		SPIRAL DOUBLE	1D979	t	SIGNWRITING MOVEMENT-FLOORPLANE BOX MEDIUM
1D954	#	SIGNWRITING TRAVEL-WALLPLANE ARM SPIRAL TRIPLE	1D97A	Ĺ	SIGNWRITING MOVEMENT-FLOORPLANE BOX
1D955	#	SIGNWRITING MOVEMENT-DIAGONAL AWAY SMALL	1D97B	4	LARGE SIGNWRITING MOVEMENT-FLOORPLANE
1D956	#	SIGNWRITING MOVEMENT-DIAGONAL AWAY MEDIUM	1D97C	Ŋ	ZIGZAG SMALL SIGNWRITING MOVEMENT-FLOORPLANE
1D957	Ħ	SIGNWRITING MOVEMENT-DIAGONAL AWAY LARGE	1D97D	Ŋ	ZIGZAG MEDIUM SIGNWRITING MOVEMENT-FLOORPLANE
1D958	Ħ	SIGNWRITING MOVEMENT-DIAGONAL AWAY LARGEST	1D97E	. <b>f</b>	ZIGZAG LARGE SIGNWRITING MOVEMENT-FLOORPLANE
1D959	Ĥ	SIGNWRITING MOVEMENT-DIAGONAL TOWARDS SMALL	1D97F	۱, ۱,	PEAKS SMALL SIGNWRITING MOVEMENT-FLOORPLANE
1D95A	î	SIGNWRITING MOVEMENT-DIAGONAL TOWARDS MEDIUM	1D980	\1 \1	PEAKS MEDIUM SIGNWRITING MOVEMENT-FLOORPLANE
1D95B	Î	SIGNWRITING MOVEMENT-DIAGONAL TOWARDS LARGE	1D981	√ .	PEAKS LARGE SIGNWRITING TRAVEL-FLOORPLANE
1D95C	Î	SIGNWRITING MOVEMENT-DIAGONAL		'	ROTATION-FLOORPLANE SINGLE
1D95D	Î	TOWARDS LARGEST SIGNWRITING MOVEMENT-DIAGONAL	1D982	<b>₹</b>	SIGNWRITING TRAVEL-FLOORPLANE ROTATION-FLOORPLANE DOUBLE
1D95E	Î	BETWEEN AWAY SMALL SIGNWRITING MOVEMENT-DIAGONAL	1D983	<b></b>	SIGNWRITING TRAVEL-FLOORPLANE ROTATION-FLOORPLANE ALTERNATING
1D95F	Î	BETWEEN AWAY MEDIUM SIGNWRITING MOVEMENT-DIAGONAL	1D984	*	SIGNWRITING TRAVEL-FLOORPLANE ROTATION-WALLPLANE SINGLE
1D960	Î	BETWEEN AWAY LARGE SIGNWRITING MOVEMENT-DIAGONAL	1D985	₹	SIGNWRITING TRAVEL-FLOORPLANE ROTATION-WALLPLANE DOUBLE
1D961	*	BETWEEN AWAY LARGEST SIGNWRITING MOVEMENT-DIAGONAL	1D986	秦	SIGNWRITING TRAVEL-FLOORPLANE ROTATION-WALLPLANE ALTERNATING
1D962	-	BETWEEN TOWARDS SMALL SIGNWRITING MOVEMENT-DIAGONAL	1D987 1D988	<b>♣</b>	SIGNWRITING TRAVEL-FLOORPLANE SHAKING SIGNWRITING MOVEMENT-WALLPLANE
1D963	fi •	BETWEEN TOWARDS MEDIUM	1D989	,	CURVE QUARTER SMALL SIGNWRITING MOVEMENT-WALLPLANE
	∏ <b>†</b>	SIGNWRITING MOVEMENT-DIAGONAL BETWEEN TOWARDS LARGE		5	CURVE QUARTER MEDIUM
1D964		SIGNWRITING MOVEMENT-DIAGONAL BETWEEN TOWARDS LARGEST	1D98A	) r	SIGNWRITING MOVEMENT-WALLPLANE CURVE QUARTER LARGE
1D965	+	SIGNWRITING MOVEMENT-FLOORPLANE SINGLE STRAIGHT SMALL	1D98B	)	SIGNWRITING MOVEMENT-WALLPLANE CURVE QUARTER LARGEST
1D966	1	SIGNWRITING MOVEMENT-FLOORPLANE SINGLE STRAIGHT MEDIUM	1D98C	9	SIGNWRITING MOVEMENT-WALLPLANE CURVE HALF-CIRCLE SMALL
1D967	1	SIGNWRITING MOVEMENT-FLOORPLANE SINGLE STRAIGHT LARGE	1D98D	9	SIGNWRITING MOVEMENT-WALLPLANE CURVE HALF-CIRCLE MEDIUM
1D968	1	SIGNWRITING MOVEMENT-FLOORPLANE SINGLE STRAIGHT LARGEST	1D98E	5	SIGNWRITING MOVEMENT-WALLPLANE CURVE HALF-CIRCLE LARGE
1D969	±	SIGNWRITING MOVEMENT-FLOORPLANE SINGLE WRIST FLEX	1D98F	5	SIGNWRITING MOVEMENT-WALLPLANE CURVE HALF-CIRCLE LARGEST
1D96A	<del>++</del>	SIGNWRITING MOVEMENT-FLOORPLANE DOUBLE STRAIGHT	1D990	9	SIGNWRITING MOVEMENT-WALLPLANE CURVE THREE-QUARTER CIRCLE SMALL
1D96B	<u>++</u>	SIGNWRITING MOVEMENT-FLOORPLANE DOUBLE WRIST FLEX	1D991	9	SIGNWRITING MOVEMENT-WALLPLANE CURVE THREE-QUARTER CIRCLE MEDIUM
1D96C	<del>+</del> †	SIGNWRITING MOVEMENT-FLOORPLANE DOUBLE ALTERNATING	1D992	3	SIGNWRITING MOVEMENT-WALLPLANE HUMP SMALL
1D96D	<u>+</u> ↑	SIGNWRITING MOVEMENT-FLOORPLANE DOUBLE ALTERNATING WRIST FLEX	1D993	3	SIGNWRITING MOVEMENT-WALLPLANE HUMP MEDIUM
1D96E	<b>+</b> Î-	SIGNWRITING MOVEMENT-FLOORPLANE	1D994	3	SIGNWRITING MOVEMENT-WALLPLANE HUMP
1D96F	+++	CROSS SIGNWRITING MOVEMENT-FLOORPLANE TRIPLE STRAIGHT MOVEMENT	1D995	9	LARGE SIGNWRITING MOVEMENT-WALLPLANE LOOP
1D970	<u>+++</u>	SIGNWRITING MOVEMENT-FLOORPLANE	1D996	9	SMALL SIGNWRITING MOVEMENT-WALLPLANE LOOP
1D971	<b>+</b> ++	TRIPLE WRIST FLEX SIGNWRITING MOVEMENT-FLOORPLANE	1D997	3	MEDIUM SIGNWRITING MOVEMENT-WALLPLANE LOOP
1D972	<u>++</u> +	TRIPLE ALTERNATING MOVEMENT SIGNWRITING MOVEMENT-FLOORPLANE	1D998		LARGE SIGNWRITING MOVEMENT-WALLPLANE LOOP
1D973	t	TRIPLE ALTERNATING WRIST FLEX SIGNWRITING MOVEMENT-FLOORPLANE BEND		~	SMALL DOUBLE
	•				

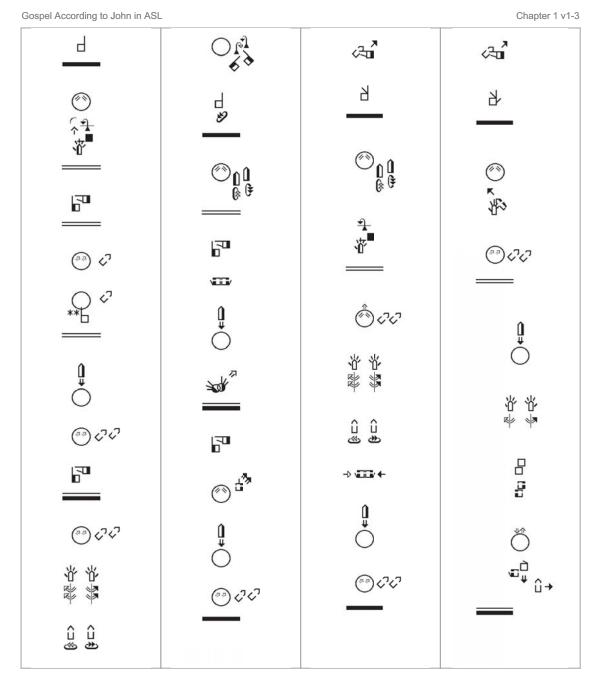
1D999	8	SIGNWRITING MOVEMENT-WALLPLANE WAVE CURVE DOUBLE SMALL	1D9BE	4	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING CEILING LARGE SINGLE
1D99A	<b>%</b>	SIGNWRITING MOVEMENT-WALLPLANE WAVE CURVE DOUBLE MEDIUM	1D9BF	1	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING CEILING SMALL DOUBLE
1D99B	8	SIGNWRITING MOVEMENT-WALLPLANE WAVE CURVE DOUBLE LARGE	1D9C0	4	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING CEILING LARGE DOUBLE
1D99C	\$	SIGNWRITING MOVEMENT-WALLPLANE WAVE CURVE TRIPLE SMALL	1D9C1	₹,	SIGNWRITING MOVEMENT-FLOORPLANE WAVE HITTING CEILING SMALL
1D99D	\$	SIGNWRITING MOVEMENT-WALLPLANE WAVE CURVE TRIPLE MEDIUM	1D9C2	ħ	SIGNWRITING MOVEMENT-FLOORPLANE WAVE HITTING CEILING LARGE
1D99E	Ş	SIGNWRITING MOVEMENT-WALLPLANE WAVE CURVE TRIPLE LARGE	1D9C3	1	SIGNWRITING ROTATION-FLOORPLANE SINGLE HITTING CEILING
1D99F	\$	SIGNWRITING MOVEMENT-WALLPLANE CURVE THEN STRAIGHT	1D9C4	11	SIGNWRITING ROTATION-FLOORPLANE DOUBLE HITTING CEILING
1D9A0	8	SIGNWRITING MOVEMENT-WALLPLANE CURVED CROSS SMALL	1D9C5	11	SIGNWRITING ROTATION-FLOORPLANE ALTERNATING HITTING CEILING
1D9A1 '	8	SIGNWRITING MOVEMENT-WALLPLANE CURVED CROSS MEDIUM	1D9C6	t	SIGNWRITING MOVEMENT-FLOORPLANE CURVE HITTING FLOOR SMALL
	*	SIGNWRITING ROTATION-WALLPLANE SINGLE SIGNWRITING ROTATION-WALLPLANE	1D9C7	t	SIGNWRITING MOVEMENT-FLOORPLANE CURVE HITTING FLOOR LARGE
	<b>↑</b>	DOUBLE SIGNWRITING ROTATION-WALLPLANE	1D9C8	ŧ,	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING FLOOR SMALL DOUBLE
45045	↑     ★	ALTERNATE SIGNWRITING MOVEMENT-WALLPLANE	1D9C9	Ŷ,	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING FLOOR LARGE DOUBLE
	**	SHAKING SIGNWRITING MOVEMENT-WALLPLANE	1D9CA	t <sub>u</sub>	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING FLOOR TRIPLE SMALL TRIPLE
	<b>≯</b>	SIGNWRITING MOVEMENT-WALLFLANE CURVE HITTING FRONT WALL SIGNWRITING MOVEMENT-WALLPLANE HUMP	1D9CB	q	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING FLOOR TRIPLE LARGE TRIPLE
1D9A8	<b>≯</b> §	SIGNWRITING MOVEMENT-WALLFLANE HOME HITTING FRONT WALL SIGNWRITING MOVEMENT-WALLFLANE LOOP	1D9CC	ŧ	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING FLOOR SMALL SINGLE
	∌ •	SIGNWRITING MOVEMENT-WALLFLANE LOOF HITTING FRONT WALL SIGNWRITING MOVEMENT-WALLFLANE WAVE	1D9CD	E	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING FLOOR LARGE SINGLE
	* <del>\$</del>	HITTING FRONT WALL SIGNWRITING ROTATION-WALLPLANE SINGLE	1D9CE	ŧ	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING FLOOR SMALL DOUBLE
		HITTING FRONT WALL SIGNWRITING ROTATION-WALLPLANE	1D9CF		SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING FLOOR LARGE DOUBLE
		DOUBLE HITTING FRONT WALL SIGNWRITING ROTATION-WALLPLANE	1D9D0	2	SIGNWRITING MOVEMENT-FLOORPLANE WAVE HITTING FLOOR SMALL
	_	ALTERNATING HITTING FRONT WALL SIGNWRITING MOVEMENT-WALLPLANE	1D9D1	J.	SIGNWRITING MOVEMENT-FLOORPLANE WAVE HITTING FLOOR LARGE
	5	CURVE HITTING CHEST	1D9D2	ŧ	
1D9AE	3	SIGNWRITING MOVEMENT-WALLPLANE HUMP HITTING CHEST	1D9D3	tt	SIGNWRITING ROTATION-FLOORPLANE DOUBLE HITTING FLOOR
1D9AF	§	SIGNWRITING MOVEMENT-WALLPLANE LOOP HITTING CHEST	1D9D4	th	SIGNWRITING ROTATION-FLOORPLANE ALTERNATING HITTING FLOOR
1D9B0	*	SIGNWRITING MOVEMENT-WALLPLANE WAVE HITTING CHEST	1D9D5	<u>~</u>	SIGNWRITING MOVEMENT-FLOORPLANE CURVE SMALL
	<del>&gt;</del>	SIGNWRITING ROTATION-WALLPLANE SINGLE HITTING CHEST	1D9D6	<u>~</u>	SIGNWRITING MOVEMENT-FLOORPLANE
1D9B2 •		DOUBLE HITTING CHEST	1D9D7		SIGNWRITING MOVEMENT-FLOORPLANE CURVE LARGE
		SIGNWRITING ROTATION-WALLPLANE ALTERNATING HITTING CHEST	1D9D8		SIGNWRITING MOVEMENT-FLOORPLANE
	\$	SIGNWRITING MOVEMENT-WALLPLANE WAVE DIAGONAL PATH SMALL	1D9D9	<b>←</b>	CURVE LARGEST SIGNWRITING MOVEMENT-FLOORPLANE
	<b>₹</b>	SIGNWRITING MOVEMENT-WALLPLANE WAVE DIAGONAL PATH MEDIUM	1D9DA	$\sim$	CURVE COMBINED SIGNWRITING MOVEMENT-FLOORPLANE
	3	SIGNWRITING MOVEMENT-WALLPLANE WAVE DIAGONAL PATH LARGE	1D9DB	$\sim$	HUMP SMALL SIGNURITING MOVEMENT-FLOORPLANE LOOP
1D9B7	-	SIGNWRITING MOVEMENT-FLOORPLANE CURVE HITTING CEILING SMALL	1D9DC	~	SMALL SIGNWRITING MOVEMENT-FLOORPLANE
1D9B8 ·	Ą	SIGNWRITING MOVEMENT-FLOORPLANE CURVE HITTING CEILING LARGE	1D9DD	$\sim$	WAVE SNAKE SIGNWRITING MOVEMENT-FLOORPLANE
	•	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING CEILING SMALL DOUBLE	1D9DE	M	WAVE SMALL SIGNWRITING MOVEMENT-FLOORPLANE
	ብ	HUMP HITTING CEILING LARGE DOUBLE		<b>√</b> }	WAVE LARGE SIGNWRITING ROTATION-FLOORPLANE SINGLE
	_	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING CEILING SMALL TRIPLE	1D9E0	#	SIGNWRITING ROTATION-FLOORPLANE DOUBLE
1D9BC	ዲ	SIGNWRITING MOVEMENT-FLOORPLANE HUMP HITTING CEILING LARGE TRIPLE	1D9E1	*	SIGNWRITING ROTATION-FLOORPLANE ALTERNATING
1D9BD	4	SIGNWRITING MOVEMENT-FLOORPLANE LOOP HITTING CEILING SMALL SINGLE	1D9E2	#	SIGNWRITING MOVEMENT-FLOORPLANE SHAKING PARALLEL

1D0E2 🛧			
1D9E3 💍	SIGNWRITING MOVEMENT-WALLPLANE ARM CIRCLE SMALL SINGLE	1DA0B Ĉ	SIGNWRITING FACE EYEBROWS STRAIGHT NEUTRAL
1D9E4 💍	SIGNWRITING MOVEMENT-WALLPLANE ARM CIRCLE MEDIUM SINGLE	1DA0C 💮	SIGNWRITING FACE EYEBROWS STRAIGHT DOWN
1D9E5 💍	SIGNWRITING MOVEMENT-WALLPLANE ARM CIRCLE SMALL DOUBLE	1DA0D 🔿	SIGNWRITING FACE DREAMY EYEBROWS NEUTRAL DOWN
1D9E6 💍	SIGNWRITING MOVEMENT-WALLPLANE ARM CIRCLE MEDIUM DOUBLE	1DA0E	SIGNWRITING FACE DREAMY EYEBROWS DOWN NEUTRAL
1D9E7 🔓	SIGNWRITING MOVEMENT-FLOORPLANE ARM CIRCLE HITTING WALL SMALL SINGLE	1DA0F	SIGNWRITING FACE DREAMY EYEBROWS UP NEUTRAL
1D9E8 🔓	SIGNWRITING MOVEMENT-FLOORPLANE ARM CIRCLE HITTING WALL MEDIUM SINGLE	1DA10 🕙	SIGNWRITING FACE DREAMY EYEBROWS NEUTRAL UP
1D9E9 🔓	SIGNWRITING MOVEMENT-FLOORPLANE ARM CIRCLE HITTING WALL LARGE SINGLE	1DA11 (7) 1DA12 (*)	SIGNWRITING FACE FOREHEAD NEUTRAL SIGNWRITING FACE FOREHEAD CONTACT
1D9EA 😝	SIGNWRITING MOVEMENT-FLOORPLANE ARM CIRCLE HITTING WALL SMALL DOUBLE	1DA13 🖱	SIGNWRITING FACE FOREHEAD WRINKLED
1D9EB 🗦	SIGNWRITING MOVEMENT-FLOORPLANE ARM CIRCLE HITTING WALL MEDIUM DOUBLE	1DA14 (^) 1DA15 (-)	SIGNWRITING FACE EYES OPEN SIGNWRITING FACE EYES SQUEEZED
1D9EC 🗦	SIGNWRITING MOVEMENT-FLOORPLANE ARM CIRCLE HITTING WALL LARGE DOUBLE	1DA16 (→ 1DA17 (←)	SIGNWRITING FACE EYES CLOSED SIGNWRITING FACE EYE BLINK SINGLE
1D9ED გ	SIGNWRITING MOVEMENT-WALLPLANE WRIST CIRCLE FRONT SINGLE	1DA18 (=) 1DA19 (=)	SIGNWRITING FACE EYE BLINK MULTIPLE SIGNWRITING FACE EYES HALF OPEN
1D9EE 🏷	SIGNWRITING MOVEMENT-WALLPLANE WRIST CIRCLE FRONT DOUBLE	1DA1A (1)	SIGNWRITING FACE EYES WIDE OPEN SIGNWRITING FACE EYES HALF CLOSED
1D9EF 😘	SIGNWRITING MOVEMENT-FLOORPLANE WRIST CIRCLE HITTING WALL SINGLE	1DA1C	SIGNWRITING FACE EYES WIDENING
1D9F0 <b>₹</b> 0		1DA1D ⊖	MOVEMENT SIGNWRITING FACE EYE WINK
1D9F1 😁	SIGNWRITING MOVEMENT-WALLPLANE	1DA1E (**)	squeezed eye blink SIGNWRITING FACE EYELASHES UP
10000 "	FINGER CIRCLES SINGLE	1DA1F	SIGNWRITING FACE EYELASHES OF
1D9F2 ≝	SIGNWRITING MOVEMENT-WALLPLANE FINGER CIRCLES DOUBLE	1DA20 😇	SIGNWRITING FACE EYELASHES FLUTTERING
1D9F3 🕃	SIGNWRITING MOVEMENT-FLOORPLANE FINGER CIRCLES HITTING WALL SINGLE	1DA21 💮	SIGNWRITING FACE EYEGAZE-WALLPLANE STRAIGHT
1D9F4 🕃	SIGNWRITING MOVEMENT-FLOORPLANE FINGER CIRCLES HITTING WALL DOUBLE	1DA22 😁	SIGNWRITING FACE EYEGAZE-WALLPLANE STRAIGHT DOUBLE
Dynam		1DA23 😁	SIGNWRITING FACE EYEGAZE-WALLPLANE STRAIGHT ALTERNATING
1D9F5	ics indicators SIGNWRITING DYNAMICS ARROWHEAD	1DA24 💮	SIGNWRITING FACE EYEGAZE-FLOORPLANE
			STRAIGHT
1D9F6	SMALL SIGNWRITING DYNAMICS ARROWHEAD	1DA25 🔿	STRAIGHT SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOURLE
1D9F6 <b>A</b> 1D9F7 <b>A</b>		1DA25 💮	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE
1D9F7 1D9F8	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW	<u> </u>	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE
1D9F7 1D9F8 1D9F9	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE	1DA26 🖰	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED
1D9F7 1D9F8 1D9F9 1D9FA ≈	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED	1DA26 💮	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE
1D9F7 1D9F8 1D9F9	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS	1DA26 🖰	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE
1D9F7 1D9F8 1D9F9 1D9FA ≈ 1D9FB 1D9FC ≈	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS	1DA26 (**) 1DA27 (**) 1DA28 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED
1D9F7 1D9F8 1D9F9 1D9FA ≈ 1D9FC ≈ 1D9FC ≈	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING	1DA26 (**) 1DA27 (**) 1DA28 (**) 1DA29 (**) 1DA2A (**) 1DA2B (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL
1D9F7 1D9F8 1D9F9 1D9FA & 1D9FB 1D9FC & 1D9FD & 1D9FE	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL	1DA26 ① 1DA27 ① 1DA28 ① 1DA29 ② 1DA2A ① 1DA2B ② 1DA2B ② 1DA2C ②	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS SUCKED
1D9F7 1D9F8 1D9F9 1D9FA 1D9FC 1D9FC 1D9FD 1D9FE  Head a	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL	1DA26 ① 1DA27 ① 1DA28 ① 1DA29 ② 1DA2A ① 1DA2B ① 1DA2C ② 1DA2D ②	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE CHEEKS HIGH
1D9F7 1D9F8 1D9F9 1D9FA 1D9FC 1D9FC 1D9FE  1D9FF 1D9FE  1D9FF	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND face SIGNWRITING HEAD	1DA26 ① 1DA27 ① 1DA28 ① 1DA29 ② 1DA2A ① 1DA2B ② 1DA2B ② 1DA2C ②	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS SUCKED
1D9F7 1D9F8 1D9F9 1D9FA 1D9FC 1D9FC 1D9FD 1D9FE  Head a	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  INDICATE SIGNWRITING DYNAMICS GRADUAL  SIGNWRITING HEAD SIGNWRITING HEAD RIM SIGNWRITING HEAD MOVEMENT-WALLPLANE	1DA26 (**) 1DA27 (**) 1DA28 (**) 1DA29 (**) 1DA28 (**) 1DA2B (**) 1DA2C (**) 1DA2C (**) 1DA2E (**) 1DA2F (**) 1DA30 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS MODDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE EARS
1D9F7 1D9F8 1D9F9 2 1D9FA ≈ 1D9FC 1D9FC 1D9FE 1D9FE 1D9FF	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  INDICATE SIGNWRITING HEAD SIGNWRITING HEAD RIM SIGNWRITING HEAD MOVEMENT-WALLPLANE STRAIGHT SIGNWRITING HEAD MOVEMENT-WALLPLANE	1DA26 (**)  1DA27 (**)  1DA28 (**)  1DA29 (**)  1DA2A (**)  1DA2B (**)  1DA2C (**)  1DA2E (**)  1DA2E (**)  1DA31 (**)  1DA32 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW
1D9F7 1D9F8 1D9F9 ~ 1D9FA ~ 1D9FB 1D9FC ~ 1D9FE ~ 1D9FE ~ 1D9FE ~ 1D400 1D401 ~ 1D401	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND IND IND IND IND IND IND IND IND IN	1DA26 (**) 1DA27 (**) 1DA28 (**) 1DA28 (**) 1DA2A (**) 1DA2B (**) 1DA2C (**) 1DA2E (**) 1DA30 (**) 1DA31 (**) 1DA32 (**) 1DA33 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE EARS SIGNWRITING FACE EARS
1D9F7 1D9F8 1D9F9 2 1D9FA & 1D9FB 1D9FC & 1D9FD & 1D9FE & 1D400 1D400 1D401 & 1D402	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  INDICATE  INDICATE SIGNWRITING HEAD SIGNWRITING HEAD RIM SIGNWRITING HEAD MOVEMENT-WALLPLANE STRAIGHT SIGNWRITING HEAD MOVEMENT-WALLPLANE TILT SIGNWRITING HEAD MOVEMENT- FLOORPLANE STRAIGHT SIGNWRITING HEAD MOVEMENT- SIGNWRITING HEAD MOVEMENT-WALLPLANE	1DA26 (**) 1DA27 (**) 1DA28 (**) 1DA28 (**) 1DA29 (**) 1DA2B (**) 1DA2C (**) 1DA2E (**) 1DA31 (**) 1DA32 (**) 1DA34 (**) 1DA35 (**) 1DA35 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WIGGLES SIGNWRITING FACE AIR BLOWING OUT
1D9F7 1D9F8 1D9F9 1D9FA & 1D9FB 1D9FC & 1D9FC & 1D9FE & 1D400 1D401 & 1D402 & 1D403 &	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND IND IND IND IND IND IND IND IND IN	1DA26 (**) 1DA27 (**) 1DA28 (**) 1DA28 (**) 1DA29 (**) 1DA2B (**) 1DA2C (**) 1DA2E (**) 1DA31 (**) 1DA32 (**) 1DA34 (**) 1DA35 (**) 1DA35 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE EARS SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE AIR BLOWING OUT SIGNWRITING FACE AIR BLOW SMALL
1D9F7 1D9F8 1D9F9 2 1D9FA & 1D9FB 1D9FC & 1D9FE & 1D9FE 1D400 1DA01 1DA02 1DA03 1DA04 1DA05	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND IND IND IND IND IND IND IND IND IN	1DA26 (**) 1DA27 (**) 1DA28 (**) 1DA28 (**) 1DA29 (**) 1DA2A (**) 1DA2C (**) 1DA2C (**) 1DA2F (**) 1DA31 (**) 1DA32 (**) 1DA32 (**) 1DA34 (**) 1DA35 (**) 1DA36 (**)	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NICKED SIGNWRITING FACE CHEEKS SUCKED SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE EARS SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WINKLES SIGNWRITING FACE NOSE WINKLES SIGNWRITING FACE AIR BLOWING OUT SIGNWRITING FACE AIR BLOW SMALL ROTATIONS SIGNWRITING FACE AIR SUCK SMALL
1D9F7 1D9F8 1D9F9 2 1D9FA & 1D9FB 1D9FC & 1D9FE & 1D9FE 1D400 1DA01 1DA02 1DA03 1DA04 1DA05 1DA06	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND IND IND IND IND IND IND IND IND IN	1DA26 ① 1DA27 ① 1DA28 ① 1DA29 ② 1DA29 ① 1DA2A ① 1DA2B ② 1DA2C ② 1DA2C ② 1DA2C ③ 1DA31 ① 1DA32 ① 1DA33 ① 1DA34 ③ 1DA34 ③ 1DA35 ① 1DA36 ② 1DA36 ② 1DA37 … 1DA38 W	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE EARS SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE AIR BLOWING OUT SIGNWRITING FACE AIR BLOWING IN SIGNWRITING FACE AIR BLOW SMALL ROTATIONS SIGNWRITING FACE AIR SUCK SMALL
1D9F7 1D9F8 1D9F9 ~ 1D9FA ~ 1D9FB 1D9FC ~ 1D9FE ~ 1D9FE ~ 1D400 1D400 1D400 1D401 ~ 1D402 ~ 1D403 ~ 1D404 ~ 1D405 ~ 1D406 1D407 ~ 1D406 ~ 1D406 ~ 1D407 ~ 1D406 ~ 1D40	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND IND IND IND IND IND IND IND IND IN	1DA26 ① 1DA27 ① 1DA28 ① 1DA28 ① 1DA29 ② 1DA2A ① 1DA2B ① 1DA2C ① 1DA2C ① 1DA2C ① 1DA2E ① 1DA31 ① 1DA32 ① 1DA33 ① 1DA34 ② 1DA34 ③ 1DA35 ① 1DA36 ② 1DA37 ③ 1DA38 W 1DA39 •	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE EYEGAZE-WALLPLANE CIRCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE EARS SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WIGGLES SIGNWRITING FACE AIR BLOWING OUT SIGNWRITING FACE AIR SUCKING IN SIGNWRITING FACE AIR BLOW SMALL ROTATIONS SIGNWRITING FACE AIR SUCK SMALL ROTATIONS SIGNWRITING FACE BREATH INHALE
1D9F7 1D9F8 1D9F9 2 1D9FA & 1D9FB 1D9FC & 1D9FE & 1D9FE 1D400 1DA01 1DA02 1DA03 1DA04 1DA05 1DA06	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  IND IND IND IND IND IND IND IND IND IN	1DA26 ① 1DA27 ① 1DA28 ① 1DA29 ② 1DA2A ① 1DA2B ① 1DA2C ① 1DA2C ① 1DA2C ① 1DA2C ① 1DA31 ① 1DA32 ① 1DA33 ① 1DA34 ② 1DA35 ① 1DA36 ① 1DA37 ③ 1DA38 W 1DA39 • 1DA38 ②	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CURCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE TENSE CHEEKS SIGNWRITING FACE TENSE CHEEKS SIGNWRITING FACE ARS SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WRINKLES SIGNWRITING FACE NOSE WIGGLES SIGNWRITING FACE AIR BLOWING OUT SIGNWRITING FACE AIR SUCKING IN SIGNWRITING FACE AIR SUCK SMALL ROTATIONS SIGNWRITING FACE AIR SUCK SMALL ROTATIONS SIGNWRITING FACE BREATH INHALE SIGNWRITING FACE BREATH EXHALE SIGNWRITING FACE BREATH EXHALE
1D9F7 1D9F8 1D9F9 ~ 1D9FA ~ 1D9FB 1D9FC ~ 1D9FE ~ 1D9FE ~ 1D400 1D400 1D400 1D401 ~ 1D402 ~ 1D403 ~ 1D404 ~ 1D405 ~ 1D406 1D407 ~ 1D406 ~ 1D406 ~ 1D407 ~ 1D406 ~ 1D40	SIGNWRITING DYNAMICS ARROWHEAD LARGE SIGNWRITING DYNAMICS FAST SIGNWRITING DYNAMICS SLOW SIGNWRITING DYNAMICS TENSE SIGNWRITING DYNAMICS RELAXED SIGNWRITING DYNAMICS SIMULTANEOUS SIGNWRITING DYNAMICS SIMULTANEOUS ALTERNATING SIGNWRITING DYNAMICS EVERY OTHER TIME SIGNWRITING DYNAMICS GRADUAL  INDICATE  INDICATE SIGNWRITING HEAD SIGNWRITING HEAD MOVEMENT-WALLPLANE STRAIGHT SIGNWRITING HEAD MOVEMENT-WALLPLANE TILT SIGNWRITING HEAD MOVEMENT- FLOORPLANE STRAIGHT SIGNWRITING HEAD MOVEMENT- FLOORPLANE CURVE SIGNWRITING HEAD MOVEMENT- FLOORPLANE CURVE SIGNWRITING HEAD MOVEMENT- FLOORPLANE CURVE SIGNWRITING HEAD MOVEMENT- SIGNWRITING HEAD MOVEMENT- FLOORPLANE CURVE SIGNWRITING HEAD MOVEMENT CIRCLE SIGNWRITING HEAD MOVEMENT CIRCLE SIGNWRITING FACE DIRECTION POSITION NOSE FORWARD TILTING SIGNWRITING FACE DIRECTION POSITION	1DA26 ① 1DA27 ① 1DA28 ① 1DA29 ② 1DA2A ① 1DA2B ① 1DA2C ① 1DA2C ① 1DA2D ① 1DA2C ① 1DA31 ① 1DA32 ① 1DA33 ① 1DA34 ② 1DA35 ① 1DA36 ① 1DA37 ③ 1DA38 W 1DA39 1DA3A ②	SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT DOUBLE SIGNWRITING FACE EYEGAZE-FLOORPLANE STRAIGHT ALTERNATING SIGNWRITING FACE EYEGAZE-WALLPLANE CURVED SIGNWRITING FACE EYEGAZE-FLOORPLANE CURVED SIGNWRITING FACE EYEGAZE-WALLPLANE CURCLING SIGNWRITING FACE CHEEKS PUFFED SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE CHEEKS NEUTRAL SIGNWRITING FACE TENSE CHEEKS HIGH SIGNWRITING FACE TENSE CHEEKS MIDDLE SIGNWRITING FACE TENSE CHEEKS LOW SIGNWRITING FACE ARS SIGNWRITING FACE NOSE NEUTRAL SIGNWRITING FACE NOSE WINKLES SIGNWRITING FACE NOSE WINKLES SIGNWRITING FACE AND SE WINKLES SIGNWRITING FACE AIR BLOWING OUT SIGNWRITING FACE AIR SUCKING IN SIGNWRITING FACE AIR SUCK SMALL ROTATIONS SIGNWRITING FACE BREATH INHALE SIGNWRITING FACE BREATH INHALE

1DA3E SIGNWRITING FACE MOUTH SMILE	1DA70 SIGNWRITING BODY FLOORPLANE SHOULDER
1DA3F SIGNWRITING FACE MOUTH SMILE WRINKLED	HIP MOVE
1DA40 SIGNWRITING FACE MOUTH SMILE OPEN	1DA71, SIGNWRITING BODY SHOULDER TILTING FROM WAIST
1DA41 ( SIGNWRITING FACE MOUTH FROWN	1DA72 <u>i</u> SIGNWRITING BODY TORSO-WALLPLANE
1DA42 ( ) SIGNWRITING FACE MOUTH FROWN WRINKLED	STRAIGHT STRETCH
1DA43 SIGNWRITING FACE MOUTH FROWN OPEN	1DA73 <u>SIGNWRITING BODY TORSO-WALLPLANE</u>
1DA44 SIGNWRITING FACE MOUTH OPEN CIRCLE	CURVED BEND  1DA74 SIGNIVIPITING BODY TORSO ELOOPPLANE
1DA45 🕟 SIGNWRITING FACE MOUTH OPEN FORWARD	1DA74 <u>SIGNWRITING BODY TORSO-FLOORPLANE</u> TWISTING
1DA46 😠 SIGNWRITING FACE MOUTH OPEN WRINKLED	1DA75 O SIGNWRITING BODY UPPER BODY TILTING
1DA47 ( ) SIGNWRITING FACE MOUTH OPEN OVAL	FROM HIP JOINTS
1DA48 ( ) SIGNWRITING FACE MOUTH OPEN OVAL WRINKLED	1DA76 × SIGNWRITING LIMB COMBINATION
1DA49 () SIGNWRITING FACE MOUTH OPEN OVAL	1DA77   SIGNWRITING LIMB LENGTH-1
YAWN	1DA78   SIGNWRITING LIMB LENGTH-2 1DA79   SIGNWRITING LIMB LENGTH-3
1DA4A SIGNWRITING FACE MOUTH OPEN RECTANGLE	1DA7A SIGNWRITING LIMB LENGTH-4
1DA4B SIGNWRITING FACE MOUTH OPEN RECTANGLE	1DA7B   SIGNWRITING LIMB LENGTH-5
WRINKLED  1DA4C  SIGNWRITING FACE MOUTH OPEN RECTANGLE	1DA7C SIGNWRITING LIMB LENGTH-6
1DA4C ( <sub>0</sub> ) SIGNWRITING FACE MOUTH OPEN RECTANGLE YAWN	1DA7D SIGNWRITING LIMB LENGTH-7
1DA4D () SIGNWRITING FACE MOUTH KISS	1DA7E SIGNWRITING FINGER
1DA4E SIGNWRITING FACE MOUTH KISS FORWARD	
1DA4F ( SIGNWRITING FACE MOUTH KISS WRINKLED	Location bases
1DA50 ( SIGNWRITING FACE MOUTH TENSE	1DA7F 🛞 SIGNWRITING LOCATION-WALLPLANE SPACE
1DA51 SIGNWRITING FACE MOUTH TENSE FORWARD	1DA80 SIGNWRITING LOCATION-FLOORPLANE SPACE
1DA52 😡 SIGNWRITING FACE MOUTH TENSE SUCKED	1DA81 SIGNWRITING LOCATION HEIGHT
1DA53 SIGNWRITING FACE LIPS PRESSED TOGETHER	1DA82 A SIGNWRITING LOCATION WIDTH
1DA54 SIGNWRITING FACE LIP LOWER OVER UPPER	1DA83 as SIGNWRITING LOCATION DEPTH
1DA55 SIGNWRITING FACE LIP UPPER OVER LOWER	1DA84 O SIGNWRITING LOCATION HEAD NECK
1DA56 SIGNWRITING FACE MOUTH CORNERS	1DA85 SIGNWRITING LOCATION TORSO
1DA57 (,) SIGNWRITING FACE MOUTH WRINKLES SINGLE 1DA58 (,,) SIGNWRITING FACE MOUTH WRINKLES	1DA86 🔽 SIGNWRITING LOCATION LIMBS DIGITS
1DA58 ( ) SIGNWRITING FACE MOUTH WRINKLES DOUBLE	Punctuation
·-·-	1DA87 SIGNWRITING PUNCTUATION COMMA
1DA59	1DA87 SIGNWRITING PUNCTUATION COMMA 1DA88 SIGNWRITING PUNCTUATION FULL STOP
1DA59 (a) SIGNWRITING FACE TONGUE STICKING OUT FAR 1DA5A (a) SIGNWRITING FACE TONGUE LICKING LIPS	1DA87 SIGNWRITING PUNCTUATION COMMA 1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS 1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN	1DA88 SIGNWRITING PUNCTUATION FULL STOP
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS 1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS 1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS 1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5
1DA59 SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 SIGNWRITING FACE TEETH	DA88 SIGNWRITING PUNCTUATION FULL STOP  1DA89 SIGNWRITING PUNCTUATION SEMICOLON  1DA8A SIGNWRITING PUNCTUATION COLON  1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2  1DA9C SIGNWRITING FILL MODIFIER-3  1DA9D SIGNWRITING FILL MODIFIER-4  1DA9E SIGNWRITING FILL MODIFIER-5  1DA9F SIGNWRITING FILL MODIFIER-6
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH	1DA88 — SIGNWRITING PUNCTUATION FULL STOP 1DA89 — SIGNWRITING PUNCTUATION SEMICOLON 1DA8A = SIGNWRITING PUNCTUATION COLON 1DA8B — SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B PW SIGNWRITING FILL MODIFIER-2 1DA9C PW SIGNWRITING FILL MODIFIER-3 1DA9D PW SIGNWRITING FILL MODIFIER-4 1DA9E PW SIGNWRITING FILL MODIFIER-5 1DA9F PW SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 PW SIGNWRITING ROTATION MODIFIER-2 1DAA2 PW SIGNWRITING ROTATION MODIFIER-3
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH  1DA63  SIGNWRITING FACE TEETH MOVEMENT  1DA63  SIGNWRITING FACE TEETH ON TONGUE	1DA88 — SIGNWRITING PUNCTUATION FULL STOP 1DA89 — SIGNWRITING PUNCTUATION SEMICOLON 1DA8A = SIGNWRITING PUNCTUATION COLON 1DA8B — SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B Provided Signwriting Fill Modifier-2 1DA9C Provided Signwriting Fill Modifier-3 1DA9D Provided Signwriting Fill Modifier-4 1DA9E Signwriting Fill Modifier-5 1DA9F Signwriting Fill Modifier-6  Rotation modifiers  1DAA1 Signwriting ROTATION MODIFIER-2 1DAA2 Signwriting ROTATION MODIFIER-3 1DAA3 Signwriting ROTATION MODIFIER-3 1DAA3 Signwriting ROTATION MODIFIER-4
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH  1DA63  SIGNWRITING FACE TEETH MOVEMENT  1DA64  SIGNWRITING FACE TEETH ON TONGUE  1DA64  SIGNWRITING FACE TEETH ON TONGUE  1DA64  SIGNWRITING FACE TEETH ON TONGUE	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING ROTATION MODIFIER-2 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5
1DA59 → SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A → SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B → SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C → SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D → SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E → SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F → SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 → SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 → SIGNWRITING FACE TEETH  1DA62 → SIGNWRITING FACE TEETH  1DA63 → SIGNWRITING FACE TEETH MOVEMENT  1DA64 → SIGNWRITING FACE TEETH ON TONGUE MOVEMENT  1DA65 → SIGNWRITING FACE TEETH ON TONGUE MOVEMENT	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING ROTATION MODIFIER-2 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-6
1DA59 → SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A → SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B → SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C → SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D → SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E → SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F → SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 → SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 → SIGNWRITING FACE TEETH  1DA62 → SIGNWRITING FACE TEETH MOVEMENT  1DA63 → SIGNWRITING FACE TEETH ON TONGUE  1DA64 → SIGNWRITING FACE TEETH ON TONGUE  MOVEMENT  1DA65 → SIGNWRITING FACE TEETH ON LIPS  1DA66 → SIGNWRITING FACE TEETH ON LIPS	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DA41 SIGNWRITING ROTATION MODIFIER-2 1DA42 SIGNWRITING ROTATION MODIFIER-3 1DA43 SIGNWRITING ROTATION MODIFIER-4 1DA44 SIGNWRITING ROTATION MODIFIER-5 1DA45 SIGNWRITING ROTATION MODIFIER-6 1DA46 SIGNWRITING ROTATION MODIFIER-6 1DA46 SIGNWRITING ROTATION MODIFIER-7
1DA5A SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 SIGNWRITING FACE TEETH  1DA62 SIGNWRITING FACE TEETH MOVEMENT  1DA63 SIGNWRITING FACE TEETH ON TONGUE  1DA64 SIGNWRITING FACE TEETH ON TONGUE  1DA65 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  MOVEMENT	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING ROTATION MODIFIER-2 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-6 1DAA6 SIGNWRITING ROTATION MODIFIER-7 1DAA7 SIGNWRITING ROTATION MODIFIER-7 1DAA7 SIGNWRITING ROTATION MODIFIER-8
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH  1DA63  SIGNWRITING FACE TEETH MOVEMENT  1DA64  SIGNWRITING FACE TEETH ON TONGUE  1DA65  SIGNWRITING FACE TEETH ON LIPS  1DA66  SIGNWRITING FACE TEETH ON LIPS  1DA67  SIGNWRITING FACE TEETH ON LIPS	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING ROTATION MODIFIER-2 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-6 1DAA6 SIGNWRITING ROTATION MODIFIER-7 1DAA7 SIGNWRITING ROTATION MODIFIER-8 1DAA8 SIGNWRITING ROTATION MODIFIER-8 1DAA8 SIGNWRITING ROTATION MODIFIER-9
1DA5A SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 SIGNWRITING FACE TEETH  1DA62 SIGNWRITING FACE TEETH MOVEMENT  1DA63 SIGNWRITING FACE TEETH ON TONGUE  1DA64 SIGNWRITING FACE TEETH ON TONGUE  1DA65 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  MOVEMENT	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING FOTATION MODIFIER-3 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-6 1DAA6 SIGNWRITING ROTATION MODIFIER-7 1DAA7 SIGNWRITING ROTATION MODIFIER-7 1DAA8 SIGNWRITING ROTATION MODIFIER-8 1DAA8 SIGNWRITING ROTATION MODIFIER-9 1DAA9 SIGNWRITING ROTATION MODIFIER-9 1DAA9 SIGNWRITING ROTATION MODIFIER-10
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH MOVEMENT  1DA63  SIGNWRITING FACE TEETH ON TONGUE  1DA64  SIGNWRITING FACE TEETH ON TONGUE  1DA65  SIGNWRITING FACE TEETH ON LIPS  1DA66  SIGNWRITING FACE TEETH ON LIPS  1DA67  SIGNWRITING FACE TEETH ON LIPS  1DA68  SIGNWRITING FACE TEETH HITE LIPS  1DA68  SIGNWRITING FACE TEETH BITE LIPS	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING ROTATION MODIFIER-3 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-6 1DAA6 SIGNWRITING ROTATION MODIFIER-7 1DAA7 SIGNWRITING ROTATION MODIFIER-7 1DAA8 SIGNWRITING ROTATION MODIFIER-8 1DAA8 SIGNWRITING ROTATION MODIFIER-9 1DAAA SIGNWRITING ROTATION MODIFIER-10 1DAAA SIGNWRITING ROTATION MODIFIER-10 1DAAA SIGNWRITING ROTATION MODIFIER-11
1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH MOVEMENT  1DA63  SIGNWRITING FACE TEETH ON TONGUE  1DA64  SIGNWRITING FACE TEETH ON TONGUE  1DA65  SIGNWRITING FACE TEETH ON LIPS  1DA66  SIGNWRITING FACE TEETH ON LIPS  1DA67  SIGNWRITING FACE TEETH DITE LIPS  1DA68  SIGNWRITING FACE MOVEMENT-WALLPLANE JAW  1DA69  SIGNWRITING FACE MOVEMENT-FLOORPLANE JAW	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DA41 SIGNWRITING FOTATION MODIFIER-3 1DA42 SIGNWRITING ROTATION MODIFIER-3 1DA43 SIGNWRITING ROTATION MODIFIER-5 1DA45 SIGNWRITING ROTATION MODIFIER-5 1DA46 SIGNWRITING ROTATION MODIFIER-6 1DA46 SIGNWRITING ROTATION MODIFIER-7 1DA47 SIGNWRITING ROTATION MODIFIER-7 1DA48 SIGNWRITING ROTATION MODIFIER-8 1DA48 SIGNWRITING ROTATION MODIFIER-9 1DA49 SIGNWRITING ROTATION MODIFIER-10 1DA4A SIGNWRITING ROTATION MODIFIER-11 1DA4B SIGNWRITING ROTATION MODIFIER-11 1DA4B SIGNWRITING ROTATION MODIFIER-12
1DA59 → SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A → SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B → SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C → SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D → SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E → SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F → SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 → SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 → SIGNWRITING FACE TEETH  1DA62 → SIGNWRITING FACE TEETH MOVEMENT  1DA63 → SIGNWRITING FACE TEETH ON TONGUE MOVEMENT  1DA64 → SIGNWRITING FACE TEETH ON LIPS  1DA66 → SIGNWRITING FACE TEETH ON LIPS  1DA67 → SIGNWRITING FACE TEETH BITE LIPS  1DA68 → SIGNWRITING FACE MOVEMENT-WALLPLANE JAW  1DA69 → SIGNWRITING FACE MOVEMENT-FLOORPLANE JAW  1DA6A → SIGNWRITING FACE MOVEMENT-FLOORPLANE JAW	1DA88 SIGNWRITING PUNCTUATION FULL STOP 1DA89 SIGNWRITING PUNCTUATION SEMICOLON 1DA8A SIGNWRITING PUNCTUATION COLON 1DA8B SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B SIGNWRITING FILL MODIFIER-2 1DA9C SIGNWRITING FILL MODIFIER-3 1DA9D SIGNWRITING FILL MODIFIER-4 1DA9E SIGNWRITING FILL MODIFIER-5 1DA9F SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DAA1 SIGNWRITING ROTATION MODIFIER-3 1DAA2 SIGNWRITING ROTATION MODIFIER-3 1DAA3 SIGNWRITING ROTATION MODIFIER-4 1DAA4 SIGNWRITING ROTATION MODIFIER-5 1DAA5 SIGNWRITING ROTATION MODIFIER-6 1DAA6 SIGNWRITING ROTATION MODIFIER-7 1DAA7 SIGNWRITING ROTATION MODIFIER-7 1DAA8 SIGNWRITING ROTATION MODIFIER-8 1DAA8 SIGNWRITING ROTATION MODIFIER-9 1DAAA SIGNWRITING ROTATION MODIFIER-10 1DAAA SIGNWRITING ROTATION MODIFIER-10 1DAAA SIGNWRITING ROTATION MODIFIER-11
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1DA59  SIGNWRITING FACE TONGUE STICKING OUT FAR  1DA5A  SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B  SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C  SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D  SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E  SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F  SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60  SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61  SIGNWRITING FACE TEETH  1DA62  SIGNWRITING FACE TEETH MOVEMENT  1DA63  SIGNWRITING FACE TEETH ON TONGUE  1DA64  SIGNWRITING FACE TEETH ON TONGUE  1DA65  SIGNWRITING FACE TEETH ON LIPS  1DA66  SIGNWRITING FACE TEETH ON LIPS  1DA67  SIGNWRITING FACE TEETH ON LIPS  1DA68  SIGNWRITING FACE TEETH BITE LIPS  1DA69  SIGNWRITING FACE MOVEMENT-WALLPLANE JAW  1DA6A  SIGNWRITING FACE MOVEMENT-FLOORPLANE JAW  1DA6A  SIGNWRITING HEAD NECK  1DA6B  SIGNWRITING HEAD NECK  1DA6C  SIGNWRITING HEAD NECK	SIGNWRITING PUNCTUATION FULL STOP  1DA89 — SIGNWRITING PUNCTUATION SEMICOLON  1DA8A = SIGNWRITING PUNCTUATION COLON  1DA8B   SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B   SIGNWRITING FILL MODIFIER-2  1DA9C   SIGNWRITING FILL MODIFIER-3  1DA9D   SIGNWRITING FILL MODIFIER-4  1DA9E   SIGNWRITING FILL MODIFIER-5  1DA9F   SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DA41   SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DA42   SIGNWRITING FOTATION MODIFIER-3  1DA43   SIGNWRITING ROTATION MODIFIER-5  1DA44   SIGNWRITING ROTATION MODIFIER-5  1DA45   SIGNWRITING ROTATION MODIFIER-6  1DA46   SIGNWRITING ROTATION MODIFIER-7  1DA47   SIGNWRITING ROTATION MODIFIER-7  1DA48   SIGNWRITING ROTATION MODIFIER-9  1DA49   SIGNWRITING ROTATION MODIFIER-10  1DA40   SIGNWRITING ROTATION MODIFIER-11  1DA40   SIGNWRITING ROTATION MODIFIER-12  1DA40   SIGNWRITING ROTATION MODIFIER-13  1DA40   SIGNWRITING ROTATION MODIFIER-13  1DA41   SIGNWRITING ROTATION MODIFIER-14  1DA42   SIGNWRITING ROTATION MODIFIER-15
1DA5A SIGNWRITING FACE TONGUE LICKING OUT FAR  1DA5A SIGNWRITING FACE TONGUE LICKING LIPS  1DA5B SIGNWRITING FACE TONGUE TIP BETWEEN LIPS  1DA5C SIGNWRITING FACE TONGUE TIP TOUCHING INSIDE MOUTH  1DA5D SIGNWRITING FACE TONGUE INSIDE MOUTH RELAXED  1DA5E SIGNWRITING FACE TONGUE MOVES AGAINST CHEEK  1DA5F SIGNWRITING FACE TONGUE CENTRE STICKING OUT  1DA60 SIGNWRITING FACE TONGUE CENTRE INSIDE MOUTH  1DA61 SIGNWRITING FACE TEETH  1DA62 SIGNWRITING FACE TEETH MOVEMENT  1DA63 SIGNWRITING FACE TEETH ON TONGUE  1DA64 SIGNWRITING FACE TEETH ON TONGUE  1DA66 SIGNWRITING FACE TEETH ON LIPS  1DA66 SIGNWRITING FACE TEETH ON LIPS  1DA67 SIGNWRITING FACE TEETH ON LIPS  1DA68 SIGNWRITING FACE TEETH ON LIPS  1DA69 SIGNWRITING FACE TEETH BITE LIPS  1DA69 SIGNWRITING FACE MOVEMENT-WALLPLANE JAW  1DA60 SIGNWRITING FACE MOVEMENT-FLOORPLANE JAW  1DA60 SIGNWRITING HEAD NECK  1DA60 SIGNWRITING HEAD NECK  1DA60 SIGNWRITING HEAD NECK  1DA60 SIGNWRITING HEAD EXCITEMENT  Body and limbs	SIGNWRITING PUNCTUATION FULL STOP  1DA89 — SIGNWRITING PUNCTUATION SEMICOLON  1DA8A = SIGNWRITING PUNCTUATION COLON  1DA8B   SIGNWRITING PUNCTUATION PARENTHESIS  Fill modifiers  1DA9B   SIGNWRITING FILL MODIFIER-2  1DA9C   SIGNWRITING FILL MODIFIER-3  1DA9D   SIGNWRITING FILL MODIFIER-4  1DA9E   SIGNWRITING FILL MODIFIER-5  1DA9F   SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DA41   SIGNWRITING FILL MODIFIER-6  Rotation modifiers  1DA42   SIGNWRITING FOTATION MODIFIER-3  1DA43   SIGNWRITING ROTATION MODIFIER-5  1DA44   SIGNWRITING ROTATION MODIFIER-5  1DA45   SIGNWRITING ROTATION MODIFIER-6  1DA46   SIGNWRITING ROTATION MODIFIER-7  1DA47   SIGNWRITING ROTATION MODIFIER-7  1DA48   SIGNWRITING ROTATION MODIFIER-9  1DA49   SIGNWRITING ROTATION MODIFIER-10  1DA40   SIGNWRITING ROTATION MODIFIER-11  1DA40   SIGNWRITING ROTATION MODIFIER-12  1DA40   SIGNWRITING ROTATION MODIFIER-13  1DA40   SIGNWRITING ROTATION MODIFIER-13  1DA41   SIGNWRITING ROTATION MODIFIER-14  1DA42   SIGNWRITING ROTATION MODIFIER-15
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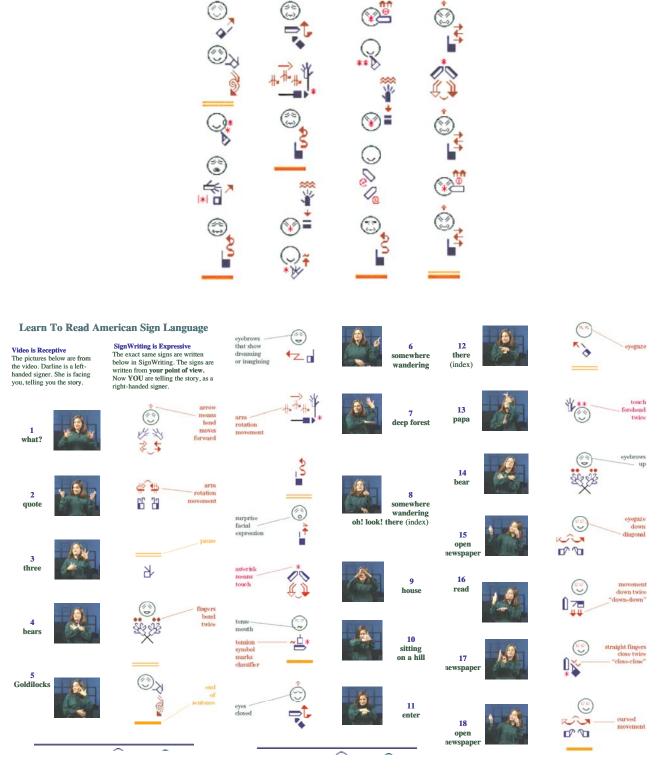
1DA6D \_\_\_\_ SIGNWRITING BODY SHOULDER HIP SPINE 1DA6E \_\_\_ SIGNWRITING BODY SHOULDER HIP POSITIONS 1DA6F \_\_\_ SIGNWRITING BODY WALLPLANE SHOULDER HIP MOVE

# 12. Additional figures.



1 In the beginning the Word already existed. The Word was with God, and the Word was God. 2
He existed in the beginning with God. 3 God created everything through him, and nothing was created except through him. NLT

Figure 5. The beginning of the Gospel of John in American Sign Language, written in SignWriting.



**Figure 6.** Above, a paragraph from the Golidlocks story written in American Sign Language; below, the beginning of the Golidlocks story is taught to beginning readers using a combination of 1) the English gloss for the meaning of each sign, 2) photos from the ASL video, 3) the SignWriting of each sign on the video, and 4) an explanation in English teaching the SignWriting symbols to students.

## A. Administrative

1. Title

### Preliminary proposal for encoding the SignWriting script in the SMP of the UCS

2. Requester's name

#### **Michael Everson**

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

#### Individual contribution.

4. Submission date

#### 2011-05-30

- 5. Requester's reference (if applicable)
- 6. Choose one of the following:
- 6a. This is a complete proposal

No.

6b. More information will be provided later

Yes.

## B. Technical - General

1. Choose one of the following:

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

Yes.

1b. Proposed name of script

#### SignWriting.

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

#### 672.

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 A.

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 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, FontLab.

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 UAX #44 http://www.unicode.org/reports/tr44/ 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.

Nο

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?

#### Valerie Sutton, Steve Slevinski.

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? Reference:

See above.

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

#### Common.

4b. Reference

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

#### Yes.

5b. If YES, where? Reference:

### Schools and daily life.

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?

#### Nο

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?

#### Yes.

11c. If YES, reference

### See §4 above, and http://www.evertype.com/standards/iso10646/pdf/signwritingsequences.txt.

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? If YES, reference