

Hieroglyphic Keyboard Help

Created by Christian Casey for Right Said Languages

Overview

This keyboard provides a quick and easy way to enter Ancient Egyptian hieroglyphs as Unicode text. It is designed to bridge the gap between the available hieroglyphic editors, which encode hieroglyphs using the [Manuel de Codage](#) standard ([MdC](#)), and the websites and programs designed for basic fonts, which will almost certainly never support the complex formatting needed to properly display Ancient Egyptian. This keyboard emulates MdC editors as much as possible in order to be accessible to users familiar with other programs. Most of these programs are intuitive, so new users should find the keyboard easy to learn and use as well (see [Methods for Typing Hieroglyphs](#) for more about available typing methods).

Basic Function

The Unicode Hieroglyphic keyboard lets you type transliterated text and hieroglyphs. The keyboard outputs transliterated text using the Manuel de Codage (MdC) standard. It creates hieroglyphs from MdC transliteration **or** [Gardiner sign list](#) numbers each time you press **Spacebar**. Repeat pressing **Spacebar** on signs output from MdC transliteration will cycle through phonetically identical signs. Pressing **Ctrl** + **Spacebar** instead outputs a space, which will also prevent transliteration from becoming hieroglyphs.

On Screen Keyboard

This keyboard includes an On Screen Keyboard view of the MdC transliteration standard for easy reference. The On Screen Keyboard works best when associated with a QWERTY US layout.

Fonts

This is a Unicode keyboard and works with any Unicode font which has support for Ancient Egyptian transliteration and hieroglyphs. Fonts which work with this keyboard include Aegyptus and Gardiner, which install with the keyboard. To see if other fonts on your computer support the keyboard, use the Keyman [Font Helper](#).

Hieroglyphs Reverting to Wrong Font in Microsoft Word

Microsoft Word has an issue that will change the font to one that does not support Hieroglyph glyphs.

Solution (Keyman Desktop Professional)

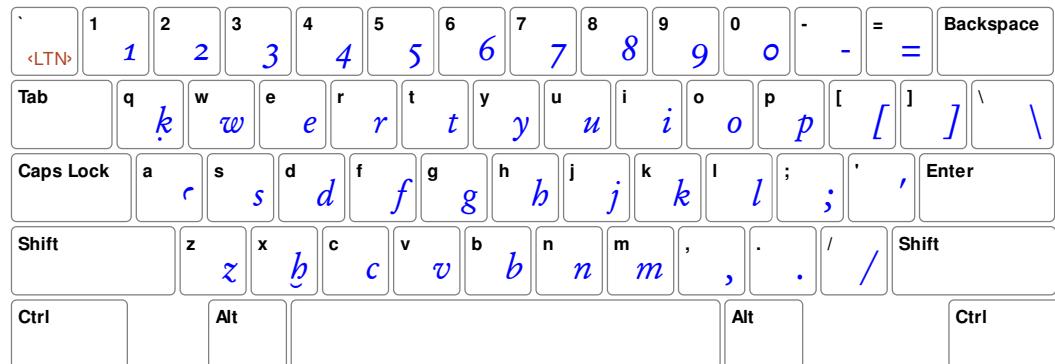
Step 1) In Keyman Desktop, open "Configuration" then "Addins". Select "Text Services Framework addin" then click "Enable".

Step 2) Open up Microsoft Word. In the Language Bar on your desktop there should be a small keyboard icon. Click it and select "Tavultesoft Keyman Desktop TSF Addin". Then select the Hieroglyph keyboard.

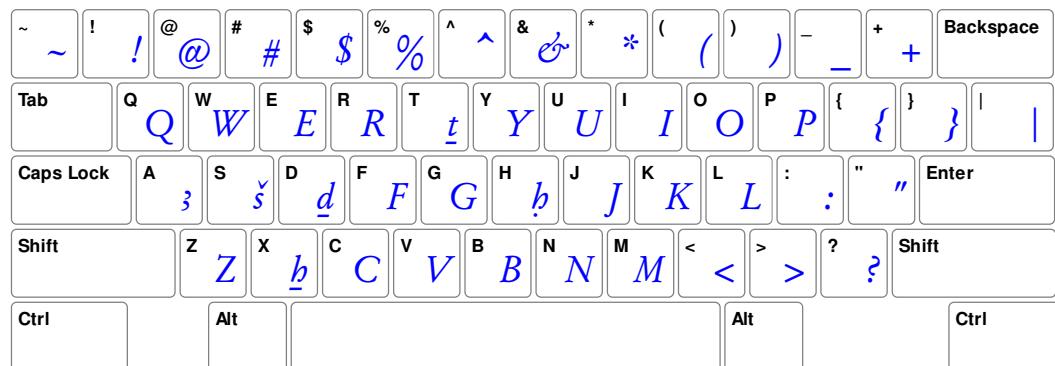
Step 3) In Microsoft Word, select a supported font such as Gardiner. All glyphs should now display correctly.

Keyboard Layout

Unshifted



Shift



Keyboard Details

This keyboard can be used to type in three ways:

- Transliteration using MdC
 - Hieroglyphs using MdC
 - Hieroglyphs using Gardiner numbers

Typing Transliteration

The keyboard automatically outputs the correct MdC transliteration when typing.

Example: type `a n x` to see `anh`.

To add a space between transliterated words use **Ctrl + Spacebar**. This prevents transliteration from converting into hieroglyphs.

To get the Latin letter value of a key instead of MdC transliteration, type `l` before the key.

Example: type `\A` to get *A* instead of `3`.

To output `,`, type `,`.

Typing Hieroglyphs Using MdC

MdC transliteration converts to hieroglyphs automatically when you press **Spacebar**.

Example: type **H t p** to see *htp*. Press **Spacebar** to get .

Some phonetic values match more than one sign. Pressing **Spacebar** repeatedly cycles through signs with identical phonetic values.

Example: type **d i Spacebar** to get . Press **Spacebar** again to get .

To add a space after a sign use **Ctrl + Spacebar**.

Typing Hieroglyphs Using Gardiner Numbers

This keyboard also converts Gardiner numbers into hieroglyphs when you press **Spacebar**.



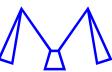
Example: type **a 3 9** to get .

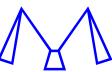
The keyboard relies on the keys you press not the transliteration output in converting Gardiner numbers into hieroglyphs.



Example: typing **X 3** gives *b3*. Pressing **Spacebar** gives , which is the correct output for Gardiner number X3.

Either upper or lowercase letters can be used to begin a Gardiner number, but the second letter in the AA sign list must be lowercase to prevent confusion with the A sign list.



Example: type **A a 6** or **a a 6** to get .

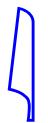
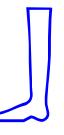
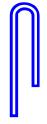
Pressing **Spacebar** repeatedly **will not** cycle through signs created from Gardiner numbers.

To add a space after a sign use **Ctrl + Spacebar**.

Typing Guides

Transliteration

This keyboard uses the MdC transliteration standard as follows:

Trans.	Key	Signs	Trans.	Key	Signs
ȝ	A		M	M	
i	i		n	n	
y	y		N	N	
r̥	a		r	r	
w	w		l	l	
W	W		b	h	
b	b		b̥	H	
p	p		b̥	x	
f	f		b̥	X	
m	m		Trans. Key Signs		
			z	Z	
			s	S	

Trans.	Key	Signs
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s	S	
---	---	---

k	q	
---	---	---

k	k	
---	---	---

g	g	
---	---	---

t	t	
---	---	---

t	T	
---	---	--

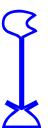
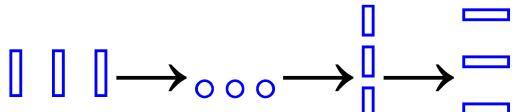
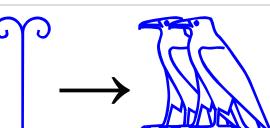
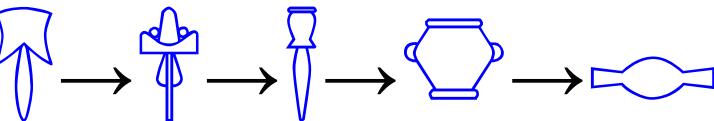
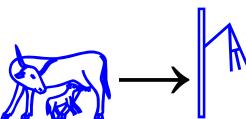
d	d	
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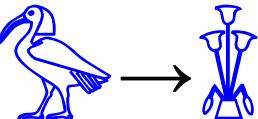
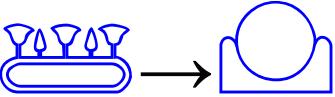
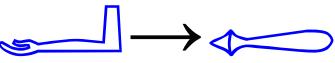
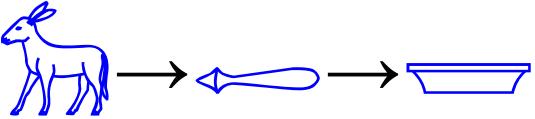
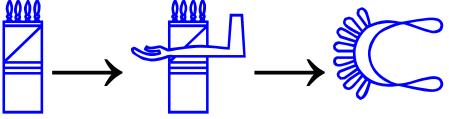
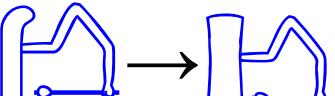
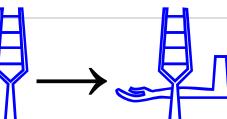
d	D	
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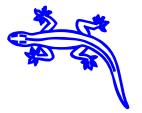
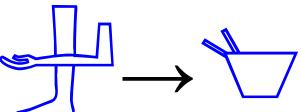
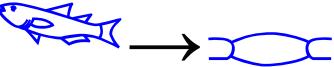
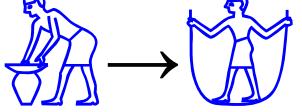
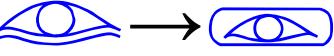
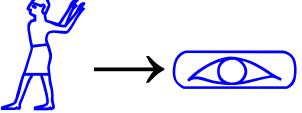
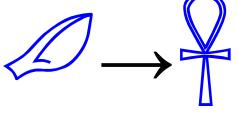
Hieroglyphs Using MdC

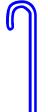
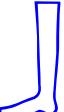
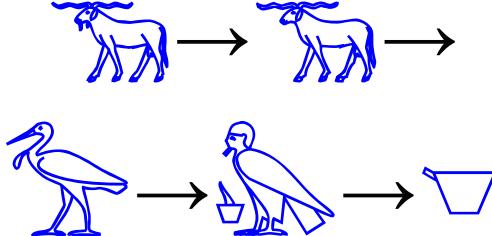
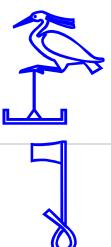
This keyboard cycles through the following hieroglyphs when you type a **Spacebar** after the transliteration/keys shown:

Keys	Trans.	Signs
	1	
1	1	
1 0	10	
1 0 0	100	

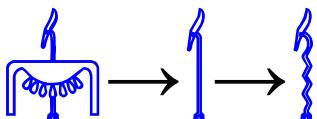
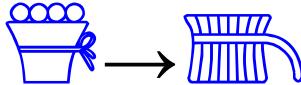
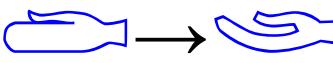
Keys	Trans.	Signs
1 0 0 0	1000	
3	3	
A	ȝ	
A A	ȝȝ	
A T p	ȝtp	
A b	ȝb	
A b d	ȝbd	
A b y	ȝby	
A i	ȝi	
A m m	ȝmm	
A m s	ȝms	
A q H w	ȝkhw	

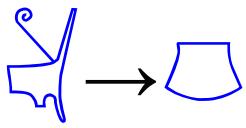
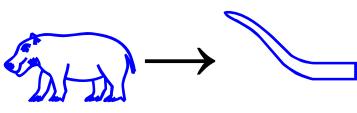
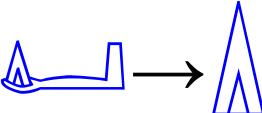
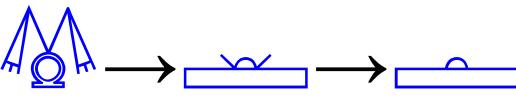
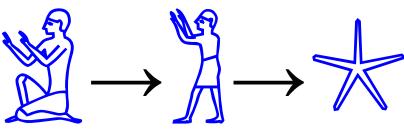
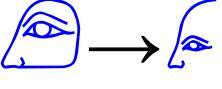
Keys	Trans.	Signs
A r	ʒr	
A t f	ʒtf	
A t p	ʒtp	
A w	ʒw	
A x	ʒb	
A x t	ʒbt	
r (a)		
a	r	
a A	rɔ	
a A m w	rɔmw	
a D	rd	
a H	rb	
a H A	rbɔ	
a H a	rbɔr	

Keys	Trans.	Signs
a S	ɾs̪	
a S A	ɾsʒ	
a b	ɾb	
a b A	ɾbʒ	
a d	ɾd	
a f t i	ɾfti	
a n	ɾn	
a n n	ɾnn	
a n t	ɾnt	
a n w	ɾnw	
a n x	ɾnb	
a p r	ɾpr	

Keys	Trans.	Signs
a q	rk	
a r q	rk	
a w t	rwt	
b	b	
b A	bʒ	
b A H	bʒb	
b A s	bʒs	
b H	bh	
b H s	bhs	
b S i	bʒi	
b a H i	bʒhi	
b d	bd	

Keys	Trans.	Signs
b d t	bdt	
b i A	biʒ	
b i t	bit	
b i t y	bity	
b n r	bnr	
b w	bw	
b z	bz	
d	d	
D	d	
D A	dʒ	
D D	dd	
D H w t y	dhwty	

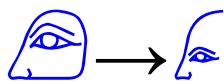
Keys	Trans.	Signs
D a m	<u>d</u> ^c m	
D b	<u>d</u> b	
D b A	<u>d</u> b; <u>d</u> b;	
D b a	<u>d</u> b;	
D d	<u>d</u> d	
D f D	<u>d</u> f <u>d</u>	
D r	<u>d</u> r	
D r D	<u>d</u> r <u>d</u>	
D r t	<u>d</u> r <u>t</u>	
D s r	<u>d</u> s <u>r</u>	
D w	<u>d</u> w	
<u>d</u>		

Keys	Trans.	Signs
d S r t	dšrt	
d b	db	
d d	dd	
d i	di	
d m D	dmd	
d q r	dkr	
d w A	dwʒ	
d w A t	dwʒt	
f	f	
f A	fʒ	
f A i	fʒi	
f n D	fnd	

Keys**Trans.****Signs**

f n d

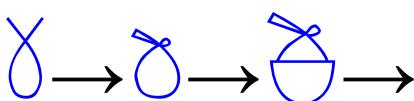
fnd



g

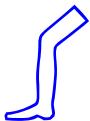
g

g



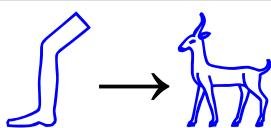
g H

gh



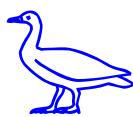
g H s

gbs



g b

gb



g b A

gb3



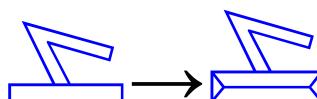
g m

gm



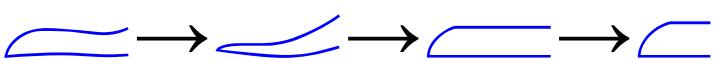
g r g

grg



g s

gs

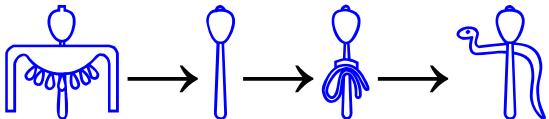
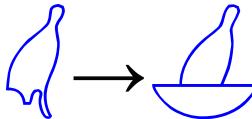
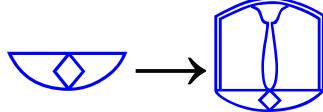
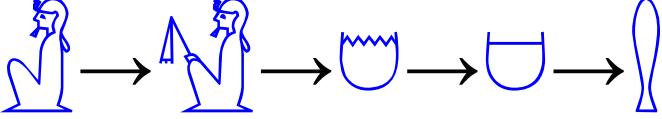
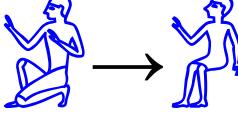
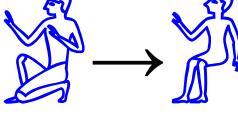


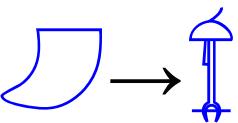
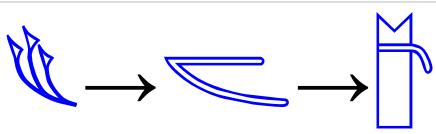
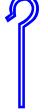
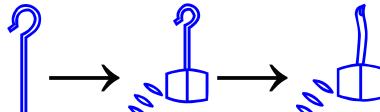
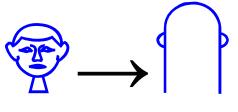
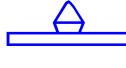
ḥ (H)

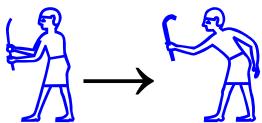
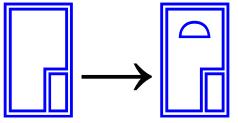
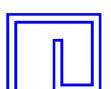
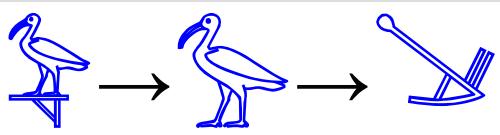
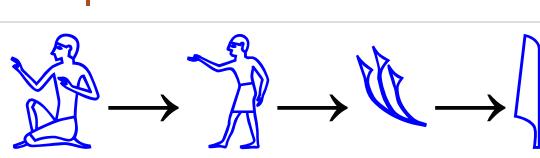
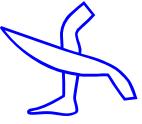
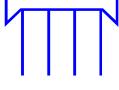
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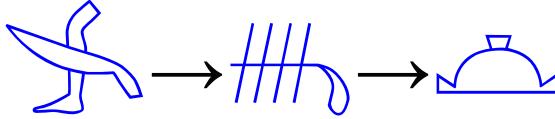
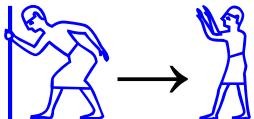
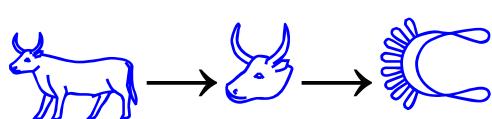
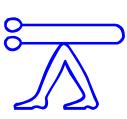
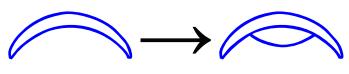
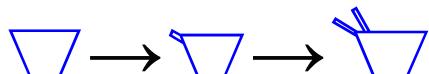
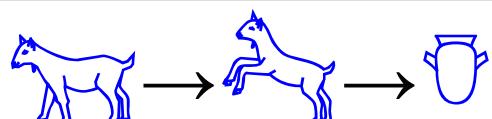
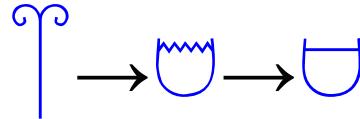
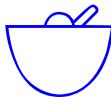
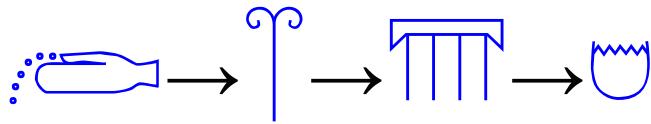
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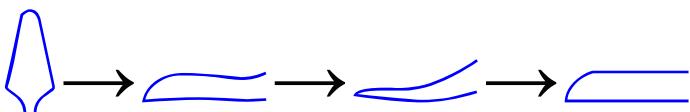
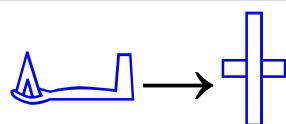
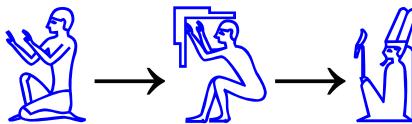
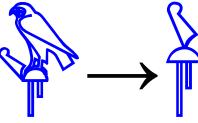
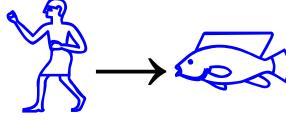
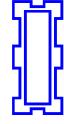
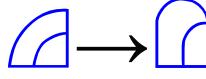


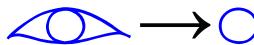
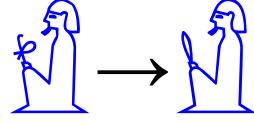
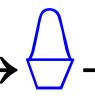
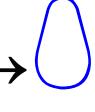
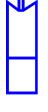
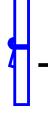
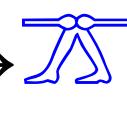
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H A	bʒ	
H A i	bʒi	
H A t	bʒt	
H D	b <u>d</u>	
H D D	b <u>dd</u>	
H D t	b <u>dt</u>	
H H	b <u>h</u>	
H a i	b <u>ri</u>	
H b	b <u>b</u>	
H f n	b <u>fn</u>	
H m	b <u>m</u>	
H m s	b <u>m s</u>	
H m s i	b <u>m s i</u>	

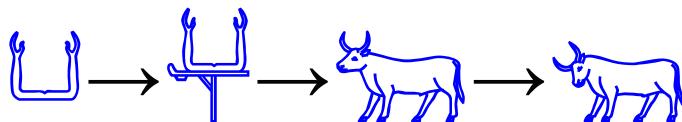
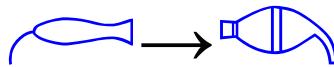
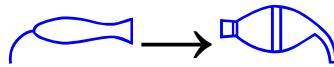
Keys	Trans.	Signs
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H n	bn	
H n k	bnk	
H n m m t	bnmmt	
H n q t	bnkt	
H p	bp	
H p t	bpt	
H q A	hk3	
H q A t	hk3t	
H r	br	
H s A t	hs3t	
H t p	btp	
H w	bw	

Keys	Trans.	Signs
H W i	bwi	
H w t	bwt	
H z	bz	
h	b	
h b	bb	
h n w	bnw	
h r w	brw	
i	i	
i A T	i3t	
i A b	i3b	
i A d t	i3dt	
i A m	i3m	

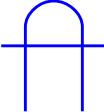
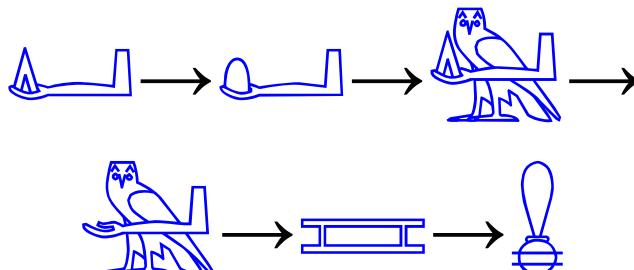
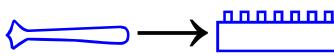
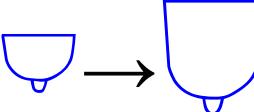
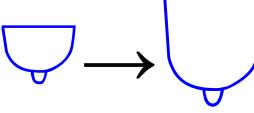
Keys	Trans.	Signs
i A s	iʒs	
i A t	iʒt	
i A w	iʒw	
i H	ib	
i T i	iti	
i a H	ičb	
i a b	ičb	
i b	ib	
i b A	ibʒ	
i d	id	
i d n	idn	
i d r	idr	
i d t	idt	

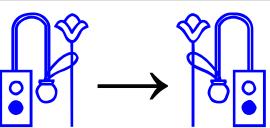
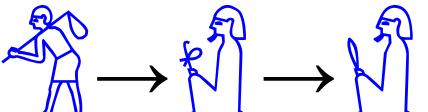
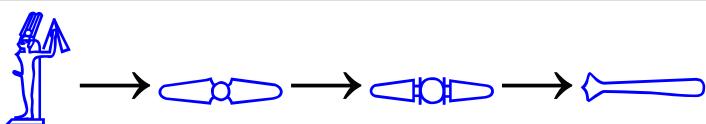
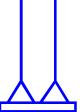
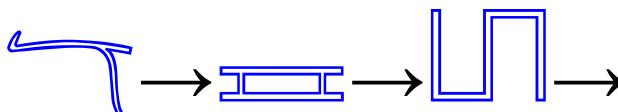
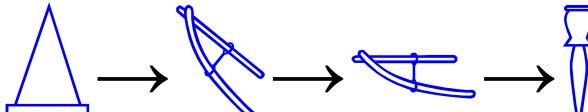
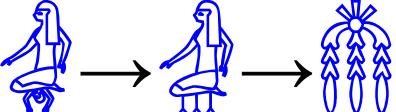
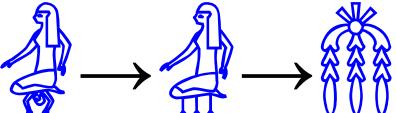
Keys	Trans.	Signs
i i	ii	
i k w	ikw	
i m	im	
i m A x	imʒb	
i m i	imi	
i m n	imn	
i m n t	imnt	
i n	in	
i n b	inb	
i n i	ini	
i n p	inp	
i n p w	inpw	
i p t	ipt	

Keys	Trans.	Signs
i r	ir	 → 
i r t	irt	
i r y	iry	 → 
i s w	isw	
i t	it	 →  →  →   →  → 
i t y	ity	
i w	iw	 →  →  →  → 
i w a	iw̥	
i w f	iwf	
i w n	iwn	
i z	iz	 → 
k	k	 → 

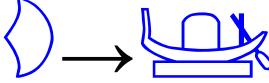
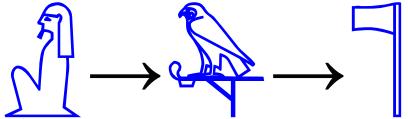
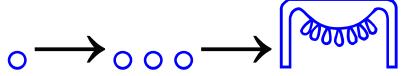
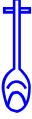
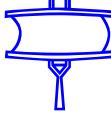
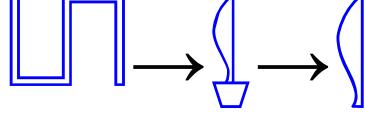
Keys	Trans.	Signs
k A	<i>kɜː</i>	
k A p	<i>kɜːp</i>	
k A r	<i>kɜːr</i>	
k A t	<i>kɜːt</i>	
k f A	<i>kfɜː</i>	
k m	<i>km</i>	
k p	<i>kp</i>	
k s	<i>ks</i>	
k s i	<i>ksi</i>	
k s w	<i>ksw</i>	
I	<i>l</i>	
		M

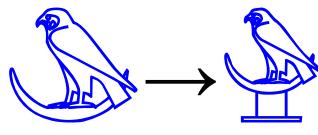
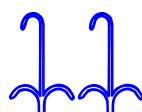
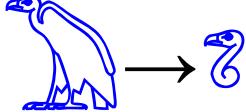
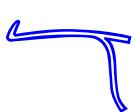
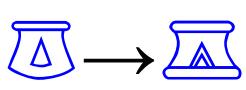
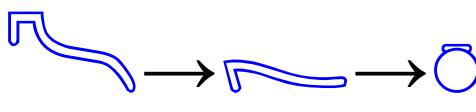
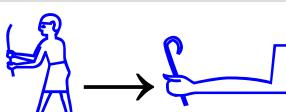
Keys	Trans.	Signs
M	M	
m	m	
m A	mʒ	
m A a	mʒt	
m A a t	mʒt	
m A i	mʒi	
m A w	mʒw	
m D	md	
m D A t	mdʒt	
m D H	mdʒh	

Keys	Trans.	Signs
m D t	<i>mdt</i>	
m H	<i>mb</i>	
m S a	<i>msr</i>	
m d	<i>md</i>	
m i	<i>mi</i>	
m m	<i>mm</i>	
m n	<i>mn</i>	
m n D	<i>mnd</i>	
m n T w	<i>mntw</i>	
m n a i	<i>mnri</i>	
m n a t	<i>mnrt</i>	

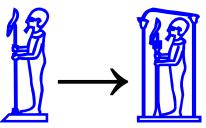
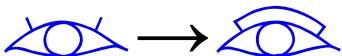
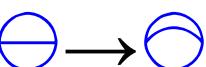
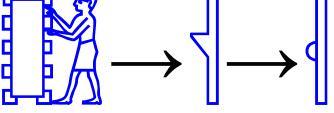
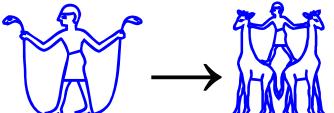
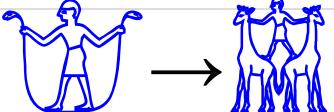
Keys	Trans.	Signs
m n h d	<i>mnhd</i>	 → 
m n i	<i>mni</i>	
m n i t	<i>mnit</i>	
m n i w	<i>mniw</i>	
m n w	<i>mnw</i>	
m n x	<i>mnb</i>	
m n x t	<i>mnxt</i>	
m r	<i>mr</i>	 
m s	<i>ms</i>	
m s D r	<i>msdr</i>	
m s i	<i>msi</i>	
m s n	<i>msn</i>	

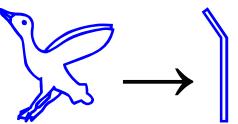
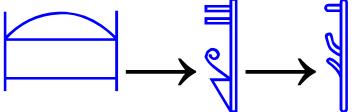
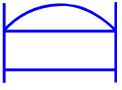
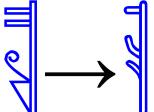
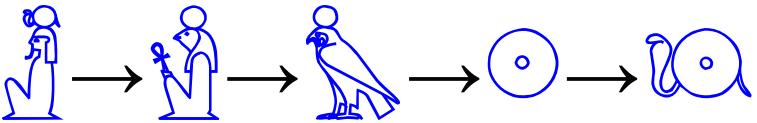
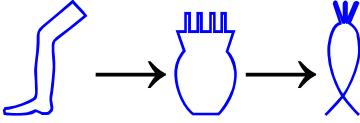
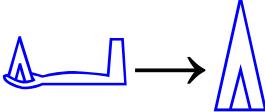
Keys	Trans.	Signs
m s w	<i>msw</i>	
m t	<i>mt</i>	
m w	<i>mw</i>	
m w t	<i>mwt</i>	
m x A t	<i>mbȝt</i>	
m z H	<i>mȝbȝ</i>	
N		
N	<i>N</i>	
n	<i>n</i>	
n D	<i>nd</i>	
n D m	<i>ndm</i>	
n D s	<i>nds</i>	

Keys	Trans.	Signs
n H	<i>nb</i>	
n S m t	<i>n̄smt</i>	
n T r	<i>ntr</i>	
n b	<i>nb</i>	
n b t y	<i>nbty</i>	
n b w	<i>nbw</i>	
n f r	<i>nfr</i>	
n f w	<i>nfw</i>	
n i	<i>ni</i>	
n i s	<i>nis</i>	
n i w t	<i>niwt</i>	
n m	<i>nm</i>	
n m H	<i>nmb</i>	

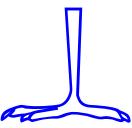
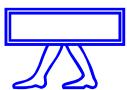
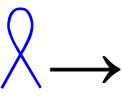
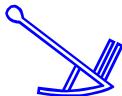
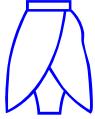
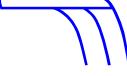
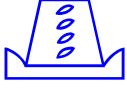
Keys	Trans.	Signs
n m t	nmt	
n m t i	nmti	
n m t t	nmtt	
n n	nn	
n n i	nni	
n r	nr	
n s	ns	
n s t	nst	
n s w	nsw	
n w	nw	
n x n	nbn	
n x t	nbt	
n x x w	nbbw	

Keys	Trans.	Signs
n z t	nzt	
p	p	
p A	pʒ	
p A q	pʒk	
p D	pd	
p H	pɸ	
p X r	pbr	
p d	pd	
p g A	pgʒ	
p q	pɸ	
p r	pr	
p s g	psg	
p t	pt	

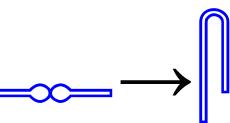
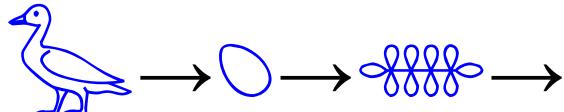
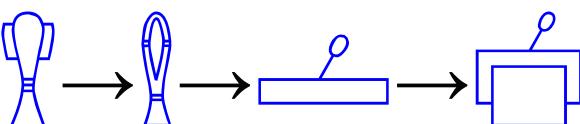
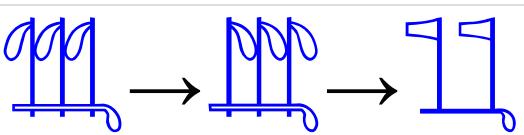
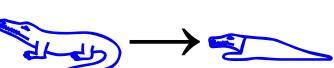
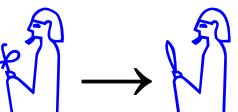
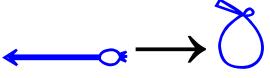
Keys	Trans.	Signs
p t H	<i>ptb</i>	
p t i	<i>pti</i>	
p t r	<i>ptr</i>	
p z D	<i>pzd</i>	
		k (q)
q	<i>k</i>	
q A	<i>kɔ</i>	
q A b	<i>kɔb</i>	
q A i	<i>kɔi</i>	
q d	<i>kd</i>	
q i	<i>ki</i>	
q i s	<i>kis</i>	
q i z	<i>kiz</i>	

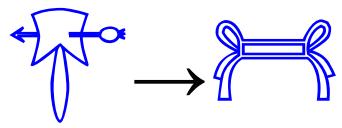
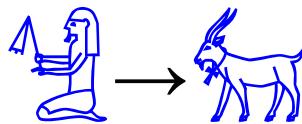
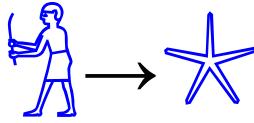
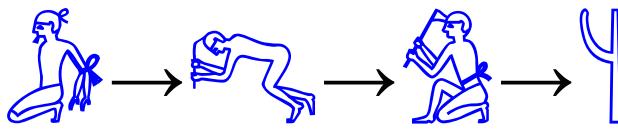
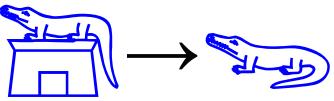
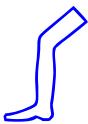
Keys	Trans.	Signs
q m A	km;	
q n	kn	
q r s	krs	
q r s w	krsw	
q s	ks	
	r	
r	r	
r A	rɔ	
r A w i	rɔwɔi	
r a	rɔ	
r d	rd	
r d i	rdi	
r h n	rhn	

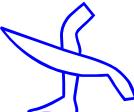
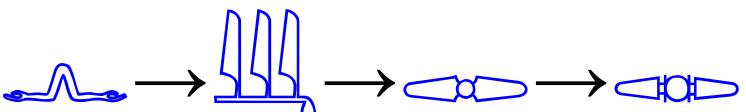
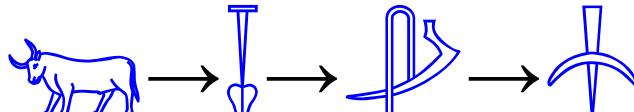
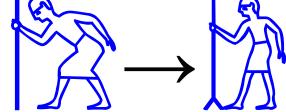
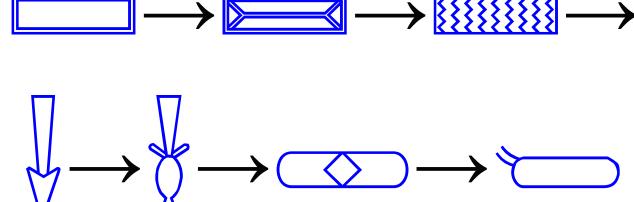
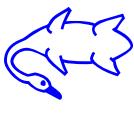
Keys	Trans.	Signs
r m i	rmi	
r m n	rmn	
r n n	rnn	
r n p	rnp	
r s	rs	
r s w	rsw	
r t H	rth	
r w	rw	
r w D	rwd	
r w d	rwd	
r x y t	rbyt	
š (S)		
S	š	

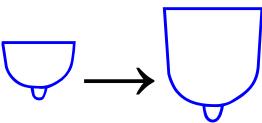
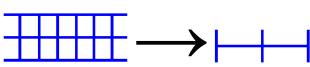
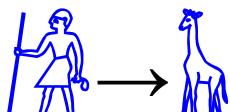
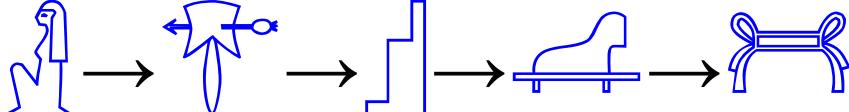
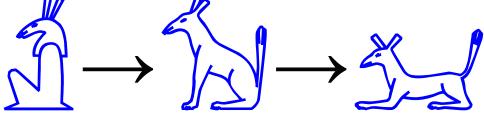
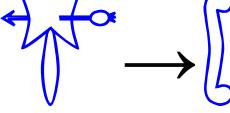
Keys	Trans.	Signs
S A	šš	 → 
S d	šd	
S m	šm	
S m A w	šmʒw	
S m a	šmr	
S m s	šms	
S n	šn	 → 
S n a	šnr	 → 
S n d y t	šndyt	
S n i	šni	
S n t	šnt	
S n w t	šnw̥t	

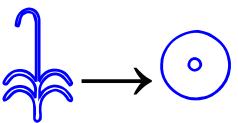
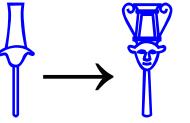
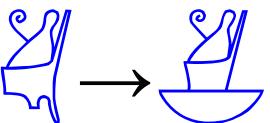
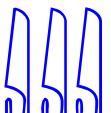
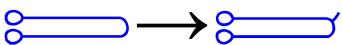
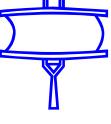
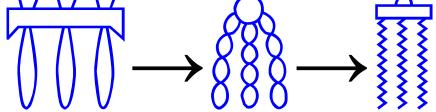
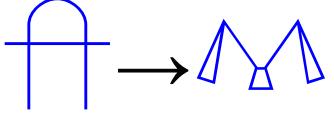
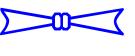
Keys	Trans.	Signs
S n y	šny	
S p	šp	
S p s	šps	
S p s i	špsi	
S r i	šri	
S s A	šsʒ	
S s p	šsp	
S t	št	
S t y w	štyw	
S w	šw	
S w t	šwt	
S w t y	šwty	
S z p	šzp	

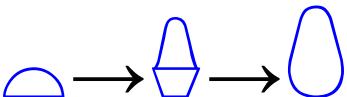
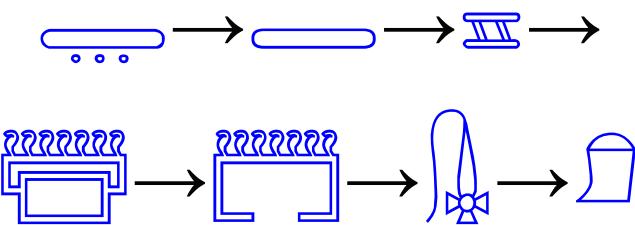
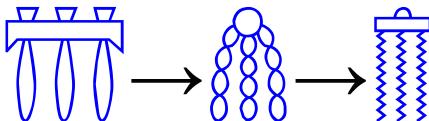
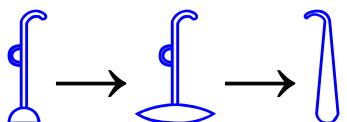
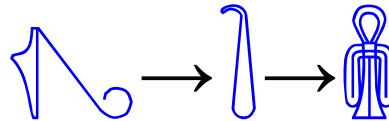
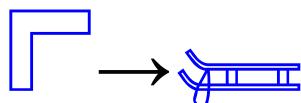
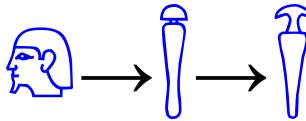
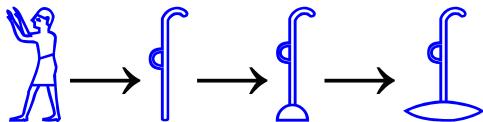
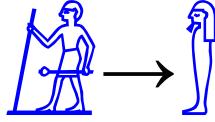
Keys	Trans.	Signs
[S]	s	s 
[S] [A]	sʒ	 
[S] [A] [H]	sʒb	
[S] [A] [q]	sʒk	
[S] [A] [w]	sʒw	
[S] [D] [A] [w]	sdʒw	
[S] [D] [m]	sdm	
[S] [D] [r]	sdr	
[S] [H] [r]	shr	
[S] [S]	ss̄	
[S] [S] [m]	ss̄m	
[S] [S] [r]	ss̄r	

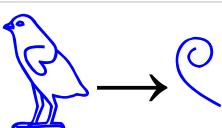
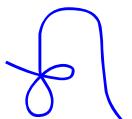
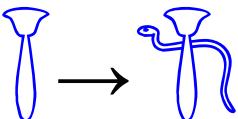
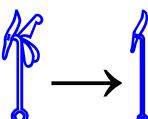
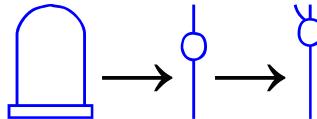
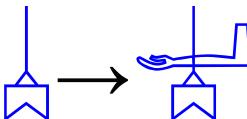
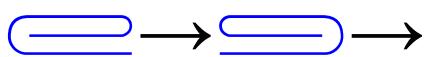
Keys	Trans.	Signs
s T	<u>st</u>	
s T A	<u>stʒ</u>	
s T A w	<u>stʒw</u>	
s X r	<u>shr</u>	
s a H	<u>sch</u>	
s b A	<u>sbʒ</u>	
s b i	<u>sbi</u>	
s b k	<u>sbk</u>	
s b q	<u>sbq</u>	
s d	<u>sd</u>	
s f	<u>sf</u>	
s i A	<u>siʒ</u>	

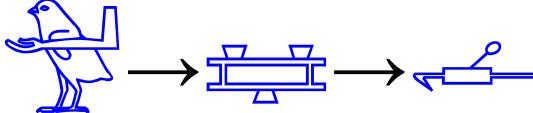
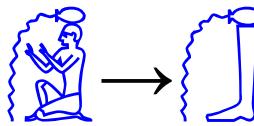
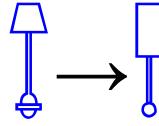
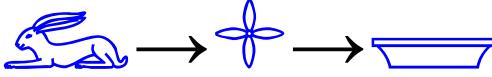
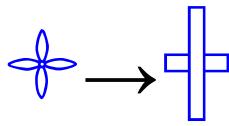
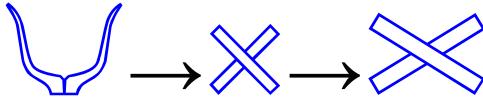
Keys	Trans.	Signs
s i A T	<i>si:t</i>	
s k	<i>sk</i>	
s m	<i>sm</i>	
s m A	<i>sm3</i>	
s m r	<i>smr</i>	
s m s w	<i>smsw</i>	
s m x	<i>smh</i>	
s n	<i>sn</i>	
s n D	<i>snd</i>	
s n T	<i>snt</i>	
s n T r	<i>sntr</i>	
s n f	<i>snf</i>	

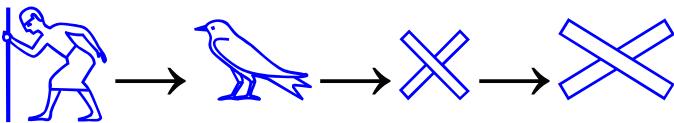
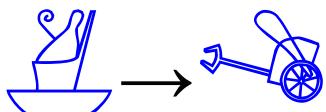
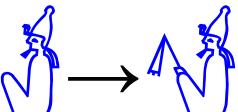
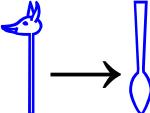
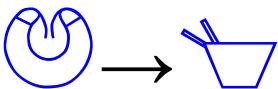
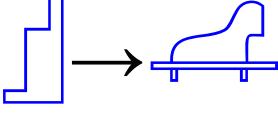
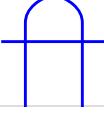
Keys	Trans.	Signs
s n q	snk	
s p A t	sp̥t	
s p r	spr	
s p t	spt	
s p t y	spty	
s q d	skd	
s q d w	skdw	
s r	sr	
s r q t	srqt	
s t	st	
s t X	sth	
s t i	sti	
s t p	stp	

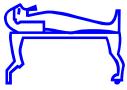
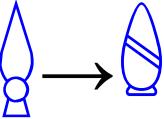
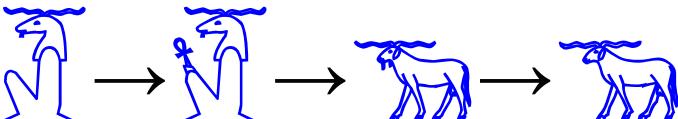
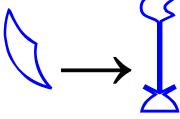
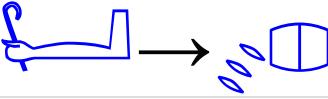
Keys	Trans.	Signs
s w	<i>sw</i>	
s x m	<i>shm</i>	
s x m t y	<i>shmyt</i>	
s x r	<i>sbr</i>	
s x t	<i>sbt</i>	
t (T)		
T	<u>t</u>	
T A	<u>tʒ</u>	
T A w	<u>tʒw</u>	
T H n	<u>thn</u>	
T b	<u>tb</u>	
T m A	<u>tmʒ</u>	
T z	<u>tz</u>	
t		

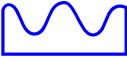
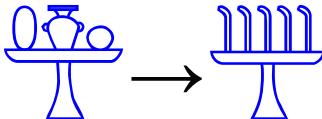
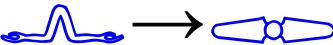
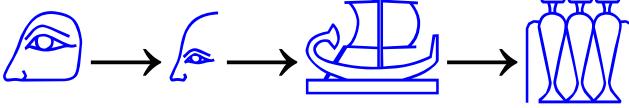
Keys	Trans.	Signs
t	t	
t A	tʒ	
t H n	tbn	
t i	ti	
t i t	tit	
t m	tm	
t n i	tni	
t p	tp	
t r	tr	
t w A	twɔ:	
t w t	twt	
t x n	tbn	

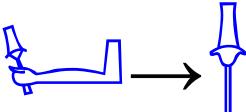
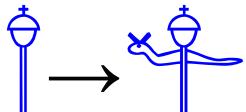
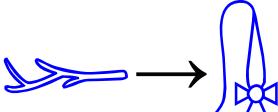
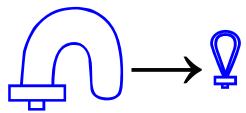
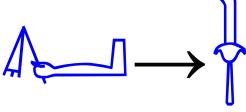
Keys	Trans.	Signs
t y w	tyw	
W	W	
W	w	
W A	wɔ	
W A D	wɔd	
W A H	wɔh	
W A s	wɔs	
W D	wd	
W D A t	wdʒt	
W D a	wdʒ	
W D b	wdʒb	
		

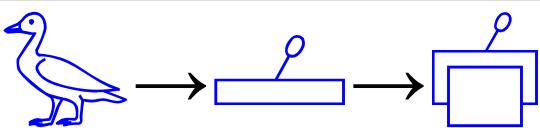
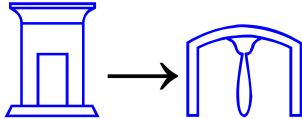
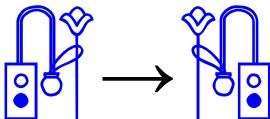
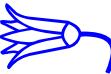
Keys	Trans.	Signs
w H a	wḥr	
w H m	wḥm	
w S	wś	
w S A	wśʒ	
w S m	wśm	
w a	wr	
w a b	wrb	
w b A	wbʒ	
w d n	wdrn	
w i	wi	
w n	wn	
w n m	wnm	
w p	wp	

Keys	Trans.	Signs
w r	wr	
w r d	wrd	
w r r t	wrrt	
w s i r	wsir	
w s r	wsr	
w s x	wsh	
w s x t	wsht	
w w	ww	
w x	wh	
w z	wz	
h (X)		
X	<u>h</u>	
X A	<u>b3</u>	
X A r	<u>b3r</u>	

Keys	Trans.	Signs
X A t	<u>b3t</u>	
X k r	<u>bkr</u>	
X n	<u>bn</u>	
X n i	<u>bni</u>	
X n m	<u>bnm</u>	
X n m w	<u>bnmw</u>	
X n t i	<u>bnti</u>	
X r	<u>br</u>	
X r d	<u>brd</u>	
ḥ (x)		
X	<u>b</u>	
x A	<u>b3</u>	
x A i	<u>b3i</u>	

Keys	Trans.	Signs
x A s t	b3st	
x A t	b3t	
x A w t	b3wt	
x a	b3r	
x b i	b3bi	
x f t y	b3fty	
x m	b3m	
x n	b3n	
x n m s	b3nms	
x n t	b3nt	
x p S	b3ps	
x p r	b3pr	

Keys	Trans.	Signs
x p r S	bprs	
x r	br	
x r p	b rp	
x r w	b rw	
x s f	bsf	
x t	bt	
x t m	b tm	
x w	b w	
x w i	b wi	
x w s i	b wsi	
y	y	
z	z	

Keys	Trans.	Signs
[z] [A]	<i>zʒ</i>	
[z] [A] [b]	<i>zʒb</i>	
[z] [H]	<i>ʒb</i>	
[z] [S]	<i>zʒ</i>	
[z] [S] [S] [t]	<i>zʒst</i>	
[z] [S] [n]	<i>zʒn</i>	
[z] [b]	<i>zb</i>	
[z] [i] [n]	<i>zin</i>	
[z] [m] [A]	<i>zmʒ</i>	
[z] [m] [n]	<i>zmn</i>	
[z] [p]	<i>zp</i>	
[z] [w]	<i>zw</i>	
[z] [w] [n]	<i>zwn</i>	

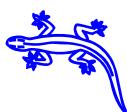
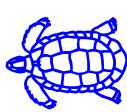
Keys	Trans.	Signs
<input type="button" value="z"/> <input type="button" value="x"/> <input type="button" value="n"/> <input type="button" value="t"/>	<i>zbnt</i>	
<input type="button" value="z"/> <input type="button" value="z"/> <input type="button" value="m"/> <input type="button" value="t"/>	<i>zzmt</i>	

Hieroglyphs Using Gardiner Numbers

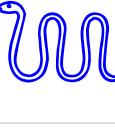
This keyboard converts the following Gardiner numbers to hieroglyphs when you press :

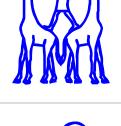
Sign	Number/Key	Sign	Number/Key
A Man + His Occupations		H Parts of Birds	
	<input type="button" value="a"/> <input type="button" value="1"/>		<input type="button" value="h"/> <input type="button" value="1"/>
	<input type="button" value="a"/> <input type="button" value="2"/>		<input type="button" value="h"/> <input type="button" value="2"/>
	<input type="button" value="a"/> <input type="button" value="3"/>		<input type="button" value="h"/> <input type="button" value="3"/>
	<input type="button" value="a"/> <input type="button" value="4"/>		<input type="button" value="h"/> <input type="button" value="4"/>
	<input type="button" value="a"/> <input type="button" value="5"/>		<input type="button" value="h"/> <input type="button" value="5"/>
	<input type="button" value="a"/> <input type="button" value="5"/> <input type="button" value="a"/>		<input type="button" value="h"/> <input type="button" value="6"/>
	<input type="button" value="a"/> <input type="button" value="6"/>		<input type="button" value="h"/> <input type="button" value="6"/> <input type="button" value="a"/>
	<input type="button" value="a"/> <input type="button" value="6"/> <input type="button" value="a"/>		<input type="button" value="h"/> <input type="button" value="7"/>
	<input type="button" value="a"/> <input type="button" value="6"/> <input type="button" value="b"/>		<input type="button" value="h"/> <input type="button" value="8"/>

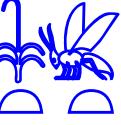
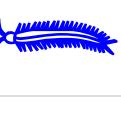
Sign	Number/Key
	a 7
	a 8
	a 9
	a 1 0
	a 1 1
	a 1 2
	a 1 3
	a 1 4
	a 1 4 a
	a 1 5
	a 1 6
	a 1 7
	a 1 7 a

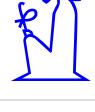
Sign	Number/Key
	i 1
	i 2
	i 3
	i 4
	i 5
	i 5 a
	i 6
	i 7
	i 8
	i 9
	i 9 a
	i 1 0

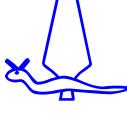
Sign	Number/Key
	a 1 8
	a 1 9
	a 2 0
	a 2 1
	a 2 2
	a 2 3
	a 2 4
	a 2 5
	a 2 6
	a 2 7
	a 2 8
	a 2 9
	a 3 0

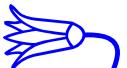
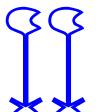
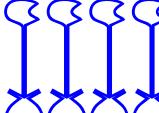
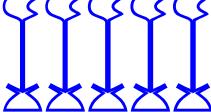
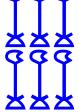
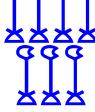
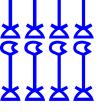
Sign	Number/Key
	i 1 0 a
	i 1 1
	i 1 1 a
	i 1 2
	i 1 3
	i 1 4
	i 1 5
K Fish + Parts of Fish	
	k 1
	k 2
	k 3
	k 4
	k 5

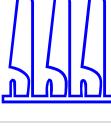
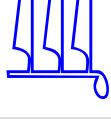
Sign	Number/Key
	a 3 1
	a 3 2
	a 3 2 a
	a 3 3
	a 3 4
	a 3 5
	a 3 6
	a 3 7
	a 3 8
	a 3 9
	a 4 0
	a 4 0 a
	a 4 1

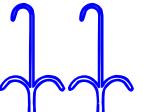
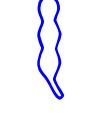
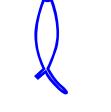
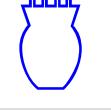
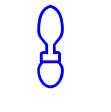
Sign	Number/Key
	k 6
	k 7
	k 8
L Invertebrates + Other Animals	
	l 1
	l 2
	l 2 a
	l 3
	l 4
	l 5
	l 6
	l 6 a
	l 7

Sign	Number/Key
	a 4 2
	a 4 2 a
	a 4 3
	a 4 3 a
	a 4 4
	a 4 5
	a 4 5 a
	a 4 6
	a 4 7
	a 4 8
	a 4 9
	a 5 0
	a 5 1

Sign	Number/Key
	I 8
M	
Trees + Other Plants	
	m 1
	m 1 a
	m 1 b
	m 2
	m 3
	m 3 a
	m 4
	m 5
	m 6
	m 7
	m 8

Sign	Number/Key	Sign	Number/Key
	a 5 2		m 9
	a 5 3		m 1 0
	a 5 4		m 1 0 a
	a 5 5		m 1 1
	a 5 6		m 1 2
	a 5 7		m 1 2 a
	a 5 8		m 1 2 b
	a 5 9		m 1 2 c
	a 6 0		m 1 2 d
	a 6 1		m 1 2 e
	a 6 2		m 1 2 f
	a 6 3		m 1 2 g
	a 6 4		m 1 2 h

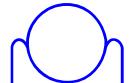
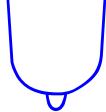
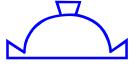
Sign	Number/Key	Sign	Number/Key
	a 6 5		m 1 3
	a 6 6		m 1 4
	a 6 7		m 1 5
	a 6 8		m 1 5 a
	a 6 9		m 1 6
	a 7 0		m 1 6 a
B Woman + Her Occupations			m 1 7
	b 1		m 1 7 a
	b 2		m 1 8
	b 3		m 1 9
	b 4		m 2 0
	b 5		m 2 1
	b 5 a		m 2 2

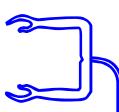
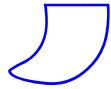
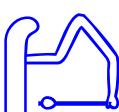
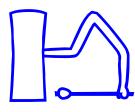
Sign	Number/Key	Sign	Number/Key
	b 6		m 2 2 a
	b 7		m 2 3
	b 8		m 2 4
	b 9		m 2 4 a
C Anthropomorphic Deities			m 2 5
	c 1		m 2 6
	c 2		m 2 7
	c 2 a		m 2 8
	c 2 b		m 2 8 a
	c 2 c		m 2 9
	c 3		m 3 0
	c 4		m 3 1
	c 5		m 3 1 a

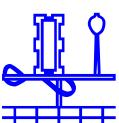
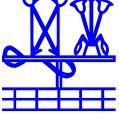
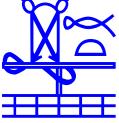
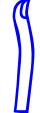
Sign	Number/Key	Sign	Number/Key
	c 6		m 3 2
	c 7		m 3 3
	c 8		m 3 3 a
	c 9		m 3 3 b
	c 1 0		m 3 4
	c 1 0 a		m 3 5
	c 1 1		m 3 6
	c 1 2		m 3 7
	c 1 3		m 3 8
	c 1 4		m 3 9
	c 1 5		m 4 0
	c 1 6		m 4 0 a
	c 1 7		m 4 1

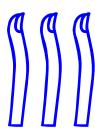
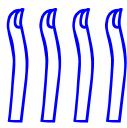
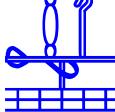
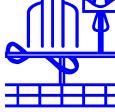
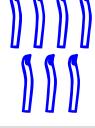
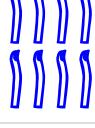
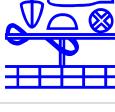
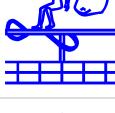
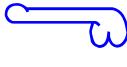
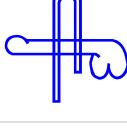
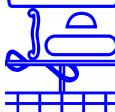
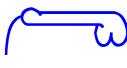
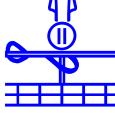
Sign	Number/Key	Sign	Number/Key
	c 1 8		m 4 2
	c 1 9		m 4 3
	c 2 0		m 4 4
	c 2 1	N Sky, Earth + Water	
	c 2 2		n 1
	c 2 3		n 2
	c 2 4		n 3
D Parts of the Human Body			n 4
	d 1		n 5
	d 2		n 6
	d 3		n 7
	d 4		n 8
	d 5		n 9

Sign	Number/Key	Sign	Number/Key
	d 6		n 1 0
	d 7		n 1 1
	d 8		n 1 2
	d 8 a		n 1 3
	d 9		n 1 4
	d 1 0		n 1 5
	d 1 1		n 1 6
	d 1 2		n 1 7
	d 1 3		n 1 8
	d 1 4		n 1 8 a
	d 1 5		n 1 8 b
	d 1 6		n 1 9
	d 1 7		n 2 0

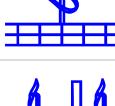
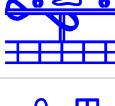
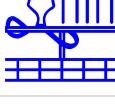
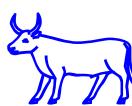
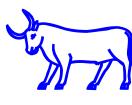
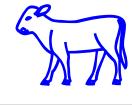
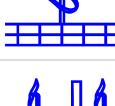
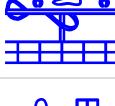
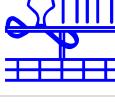
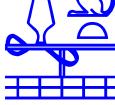
Sign	Number/Key	Sign	Number/Key
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	d 1 9		n 2 2
	d 2 0		n 2 3
	d 2 1		n 2 4
	d 2 2		n 2 5
	d 2 3		n 2 5 a
	d 2 4		n 2 6
	d 2 5		n 2 7
	d 2 6		n 2 8
	d 2 7		n 2 9
	d 2 7 a		n 3 0
	d 2 8		n 3 1
	d 2 9		n 3 2

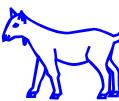
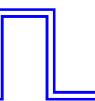
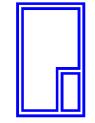
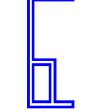
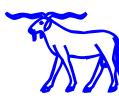
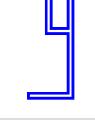
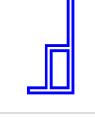
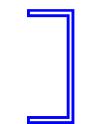
Sign	Number/Key	Sign	Number/Key
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	d 3 1		n 3 3 a
	d 3 1 a		n 3 4
	d 3 2		n 3 4 a
	d 3 3		n 3 5
	d 3 4		n 3 5 a
	d 3 4 a		n 3 6
	d 3 5		n 3 7
	d 3 6		n 3 7 a
	d 3 7		n 3 8
	d 3 8		n 3 9
	d 3 9		n 4 0
	d 4 0		n 4 1

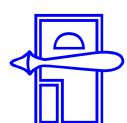
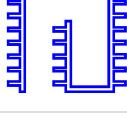
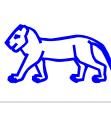
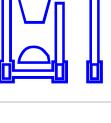
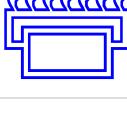
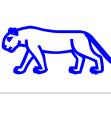
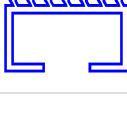
Sign	Number/Key	Sign	Number/Key
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	d 4 2		n 1 1
	d 4 3		n 1 2
	d 4 4		n 1 3
	d 4 5		n 1 4
	d 4 6		n 1 5
	d 4 6 a		n 1 5 a
	d 4 7		n 1 6
	d 4 8		n 1 7
	d 4 8 a		n 1 8
	d 4 9		n 1 9
	d 5 0		n 1 0
	d 5 0 a		n 1 1

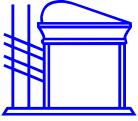
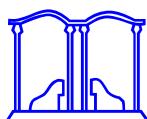
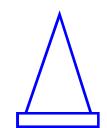
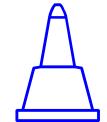
Sign	Number/Key	Sign	Number/Key
	d 5 0 b		n 1 1 2
	d 5 0 c		n 1 1 3
	d 5 0 d		n 1 1 4
	d 5 0 e		n 1 1 5
	d 5 0 f		n 1 1 6
	d 5 0 g		n 1 1 7
	d 5 0 h		n 1 1 7 a
	d 5 0 i		n 1 1 8
	d 5 1		n 1 1 9
	d 5 2		n 1 2 0
	d 5 2 a		n u 1
	d 5 3		n u 2
	d 5 4		n u 3

Sign	Number/Key	Sign	Number/Key
	d 5 4 a		n u 4
	d 5 5		n u 5
	d 5 6		n u 6
	d 5 7		n u 7
	d 5 8		n u 8
	d 5 9		n u 9
	d 6 0		n u 1 0
	d 6 1		n u 1 0 a
	d 6 2		n u 1 1
	d 6 3		n u 1 1 a
	d 6 4		n u 1 2
	d 6 5		n u 1 3
	d 6 6		n u 1 4

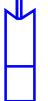
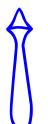
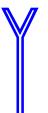
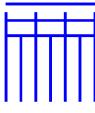
Sign	Number/Key	Sign	Number/Key
○	d 6 7		n u 1 5
○○	d 6 7 a		n u 1 6
○○○	d 6 7 b		n u 1 7
○○○○	d 6 7 c		n u 1 8
○○○○○	d 6 7 d		n u 1 8 a
○○○○○○	d 6 7 e		n u 1 9
○○○○○○○	d 6 7 f		n u 2 0
○○○○○○○○	d 6 7 g		n u 2 1
○○○○○○○○○	d 6 7 h		n u 2 2
E Mammals			e 1
			e 2
			e 3
			n u 1 5
			n u 1 6
			n u 1 7
			n u 1 8
			n u 1 8 a
			n u 1 9
			n u 2 0
			n u 2 1
			n u 2 2
			n u 2 2 a
O Buildings + Parts of Buildings			o 1
			o 1 a

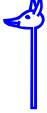
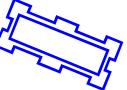
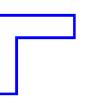
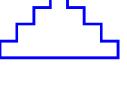
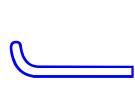
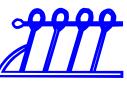
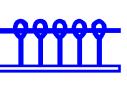
Sign	Number/Key	Sign	Number/Key
	e 4		o 2
	e 5		o 3
	e 6		o 4
	e 7		o 5
	e 8		o 5 a
	e 8 a		o 6
	e 9		o 6 a
	e 9 a		o 6 b
	e 10		o 6 c
	e 11		o 6 d
	e 12		o 6 e
	e 13		o 6 f
	e 14		o 7

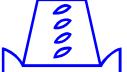
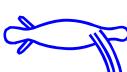
Sign	Number/Key	Sign	Number/Key
	e 1 5		o 8
	e 1 6		o 9
	e 1 6 a		o 1 0
	e 1 7		o 1 0 a
	e 1 7 a		o 1 0 b
	e 1 8		o 1 0 c
	e 1 9		o 1 1
	e 2 0		o 1 2
	e 2 0 a		o 1 3
	e 2 1		o 1 4
	e 2 2		o 1 5
	e 2 3		o 1 6
	e 2 4		o 1 7

Sign	Number/Key	Sign	Number/Key
	e 2 5		o 1 8
	e 2 6		o 1 9
	e 2 7		o 1 9 a
	e 2 8		o 2 0
	e 2 8 a		o 2 0 a
	e 2 9		o 2 1
	e 3 0		o 2 2
	e 3 1		o 2 3
	e 3 2		o 2 4
	e 3 3		o 2 4 a
	e 3 4		o 2 5
	e 3 4 a		o 2 5 a
	e 3 6		o 2 6

Sign	Number/Key
	e 3 7
	e 3 8
F Parts of Mammals	
	f 1
	f 1 a
	f 2
	f 3
	f 4
	f 5
	f 6
	f 7
	f 8
	f 9

Sign	Number/Key
	o 2 7
	o 2 8
	o 2 9
	o 2 9 a
	o 3 0
	o 3 0 a
	o 3 1
	o 3 2
	o 3 3
	o 3 3 a
	o 3 4
	o 3 5
	o 3 6

Sign	Number/Key	Sign	Number/Key
	f 1 0		o 3 6 a
	f 1 1		o 3 6 b
	f 1 2		o 3 6 c
	f 1 3		o 3 6 d
	f 1 3 a		o 3 7
	f 1 4		o 3 8
	f 1 5		o 3 9
	f 1 6		o 4 0
	f 1 7		o 4 1
	f 1 8		o 4 2
	f 1 9		o 4 3
	f 2 0		o 4 4
	f 2 1		o 4 5

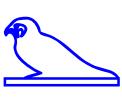
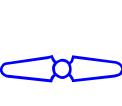
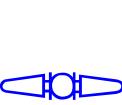
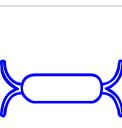
Sign	Number/Key	Sign	Number/Key
	f 2 1 a		o 4 6
	f 2 2		o 4 7
	f 2 3		o 4 8
	f 2 4		o 4 9
	f 2 5		o 5 0
	f 2 6		o 5 0 a
	f 2 7		o 5 0 b
	f 2 8		o 5 1
	f 2 9	P Ships + Parts of Ships	
	f 3 0		p 1
	f 3 1		p 1 a
	f 3 1 a		p 2
	f 3 2		p 3

Sign	Number/Key	Sign	Number/Key
	f 3 3		p 3 a
	f 3 4		p 4
	f 3 5		p 5
	f 3 6		p 6
	f 3 7		p 7
	f 3 7 a		p 8
	f 3 8		p 9
	f 3 8 a		p 1 0
	f 3 9		p 1 1
	f 4 0	Q Furniture	
	f 4 1		q 1
	f 4 2		q 2
	f 4 3		q 3

Sign	Number/Key
	f 4 4
	f 4 5
	f 4 5 a
	f 4 6
	f 4 6 a
	f 4 7
	f 4 7 a
	f 4 8
	f 4 9
	f 5 0
	f 5 1
	f 5 1 a
	f 5 1 b

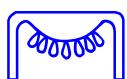
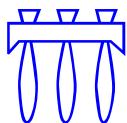
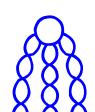
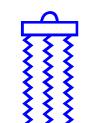
Sign	Number/Key
	q 4
	q 5
	q 6
	q 7
R Temple	
	r 1
	r 2
	r 2 a
	r 3
	r 3 a
	r 3 b
	r 4
	r 5

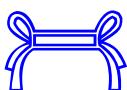
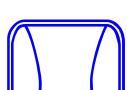
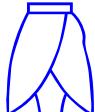
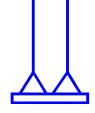
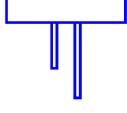
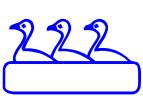
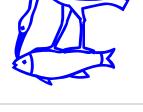
Sign	Number/Key	Sign	Number/Key	
	f 5 1 c		r 6	
	f 5 2		r 7	
	f 5 3		r 8	
G Birds				r 9
	g 1		r 1 0	
	g 2		r 1 0 a	
	g 3		r 1 1	
	g 4		r 1 2	
	g 5		r 1 3	
	g 6		r 1 4	
	g 6 a		r 1 5	
	g 7		r 1 6	
	g 7 a		r 1 6 a	

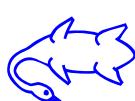
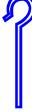
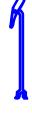
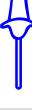
Sign	Number/Key	Sign	Number/Key
	g 7 b		r 1 7
	g 8		r 1 8
	g 9		r 1 9
	g 1 0		r 2 0
	g 1 1		r 2 1
	g 1 1 a		r 2 2
	g 1 2		r 2 3
	g 1 3		r 2 4
	g 1 4		r 2 5
	g 1 5		r 2 6
	g 1 6		r 2 7
	g 1 7		r 2 8
	g 1 8		r 2 9

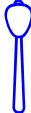
Sign	Number/Key
	g 1 9
	g 2 0
	g 2 0 a
	g 2 1
	g 2 2
	g 2 3
	g 2 4
	g 2 5
	g 2 6
	g 2 6 a
	g 2 7
	g 2 8
	g 2 9

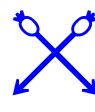
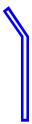
Sign	Number/Key
S	
Crowns + Staffs	
	s 1
	s 2
	s 2 a
	s 3
	s 4
	s 5
	s 6
	s 6 a
	s 7
	s 8
	s 9
	s 1 0

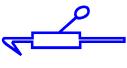
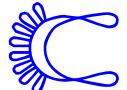
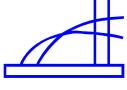
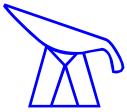
Sign	Number/Key	Sign	Number/Key
	g 3 0		s 1 1
	g 3 1		s 1 2
	g 3 2		s 1 3
	g 3 3		s 1 4
	g 3 4		s 1 4 a
	g 3 5		s 1 4 b
	g 3 6		s 1 5
	g 3 6 a		s 1 6
	g 3 7		s 1 7
	g 3 7 a		s 1 7 a
	g 3 8		s 1 8
	g 3 9		s 1 9
	g 4 0		s 2 0

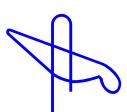
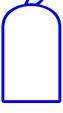
Sign	Number/Key	Sign	Number/Key
	g 4 1		s 2 1
	g 4 2		s 2 2
	g 4 3		s 2 3
	g 4 3 a		s 2 4
	g 4 4		s 2 5
	g 4 5		s 2 6
	g 4 5 a		s 2 6 a
	g 4 6		s 2 6 b
	g 4 7		s 2 7
	g 4 8		s 2 8
	g 4 9		s 2 9
	g 5 0		s 3 0
	g 5 1		s 3 1

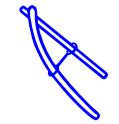
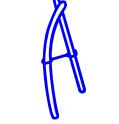
Sign	Number/Key	Sign	Number/Key
	g 5 2		s 3 2
	g 5 3		s 3 3
	g 5 4		s 3 4
			s 3 5
			s 3 5 a
			s 3 6
			s 3 7
			s 3 8
			s 3 9
			s 4 0
			s 4 1
			s 4 2
			s 4 3

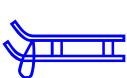
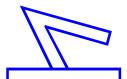
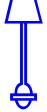
Sign	Number/Key
	s 4 4
	s 4 5
	s 4 6
T War, Hunting + Butchery	
	t 1
	t 2
	t 3
	t 3 a
	t 4
	t 5
	t 6
	t 7
	t 7 a

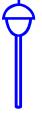
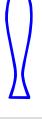
Sign	Number/Key
	t 8
	t 8 a
	t 9
	t 9 a
	t 1 0
	t 1 1
	t 1 1 a
	t 1 2
	t 1 3
	t 1 4
	t 1 5
	t 1 6
	t 1 6 a

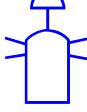
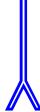
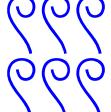
Sign	Number/Key
	t 1 7
	t 1 8
	t 1 9
	t 2 0
	t 2 1
	t 2 2
	t 2 3
	t 2 4
	t 2 5
	t 2 6
	t 2 7
	t 2 8
	t 2 9

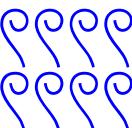
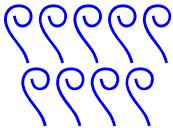
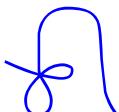
Sign	Number/Key
	t 3 0
	t 3 1
	t 3 2
	t 3 2 a
	t 3 3
	t 3 3 a
	t 3 4
	t 3 5
	t 3 6
U Agriculture + Crafts	
	u 1
	u 2
	u 3

Sign	Number/Key
	[u] 4
	[u] 5
	[u] 6
	[u] 6 a
	[u] 6 b
	[u] 7
	[u] 8
	[u] 9
	[u] 1 0
	[u] 1 1
	[u] 1 2
	[u] 1 3
	[u] 1 4

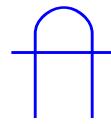
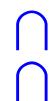
Sign	Number/Key
	u 1 5
	u 1 6
	u 1 7
	u 1 8
	u 1 9
	u 2 0
	u 2 1
	u 2 2
	u 2 3
	u 2 3 a
	u 2 4
	u 2 5
	u 2 6

Sign	Number/Key
	u 2 7
	u 2 8
	u 2 9
	u 2 9 a
	u 3 0
	u 3 1
	u 3 2
	u 3 2 a
	u 3 3
	u 3 4
	u 3 5
	u 3 6
	u 3 7

Sign	Number/Key
	u 3 8
	u 3 9
	u 4 0
	u 4 1
	u 4 2
V	
Rope, Fiber, Baskets, etc	
	v 1
	v 1 a
	v 1 b
	v 1 c
	v 1 d
	v 1 e
	v 1 f

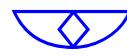
Sign	Number/Key
	v 1 g
	v 1 h
	v 1 i
	v 2
	v 2 a
	v 3
	v 4
	v 5
	v 6
	v 7
	v 7 a
	v 7 b
	v 8

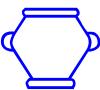
Sign	Number/Key
	v 9
	v 1 0
	v 1 1
	v 1 1 a
	v 1 1 b
	v 1 1 c
	v 1 2
	v 1 2 a
	v 1 2 b
	v 1 3
	v 1 4
	v 1 5
	v 1 6

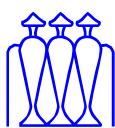
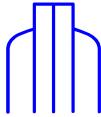
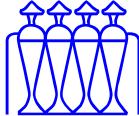
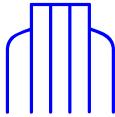
Sign	Number/Key
	v 1 7
	v 1 8
	v 1 9
	v 2 0
	v 2 0 a
	v 2 0 b
	v 2 0 c
	v 2 0 d
	v 2 0 e
	v 2 0 f
	v 2 0 g
	v 2 0 h
	v 2 0 i

Sign	Number/Key
	v 2 0 j
	v 2 0 k
	v 2 0 l
	v 2 1
	v 2 2
	v 2 3
	v 2 3 a
	v 2 4
	v 2 5
	v 2 6
	v 2 7
	v 2 8
	v 2 8 a

Sign	Number/Key
	v 2 9
	v 2 9 a
	v 3 0
	v 3 0 a
	v 3 1
	v 3 1 a
	v 3 2
	v 3 3
	v 3 3 a
	v 3 4
	v 3 5
	v 3 6
	v 3 7

Sign	Number/Key
	v 3 7 a
	v 3 8
	v 3 9
	v 4 0
	v 4 0 a
W Stoneware + Pottery	
	w 1
	w 2
	w 3
	w 3 a
	w 4
	w 5
	w 6

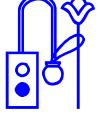
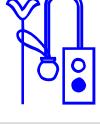
Sign	Number/Key
	w 7
	w 8
	w 9
	w 9 a
	w 1 0
	w 1 0 a
	w 1 1
	w 1 2
	w 1 3
	w 1 4
	w 1 4 a
	w 1 5
	w 1 6

Sign	Number/Key
	w 1 7
	w 1 7 a
	w 1 8
	w 1 8 a
	w 1 9
	w 2 0
	w 2 1
	w 2 2
	w 2 3
	w 2 4
	w 2 4 a
	w 2 5
X Loaves + Cakes	

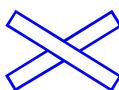
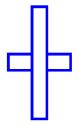
Sign	Number/Key
	x 1
	x 2
	x 3
	x 4
	x 4 a
	x 4 b
	x 5
	x 6
	x 6 a
	x 7
	x 8
	x 8 a

Y

Writing, Games + Music

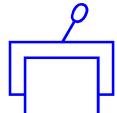
Sign	Number/Key
	y 1
	y 1 a
	y 2
	y 3
	y 4
	y 5
	y 6
	y 7
	y 8
Z	
Geometric Figures	
	z 1
	z 2
	z 2 a

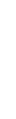
Sign	Number/Key
○ ○ ○	[z] 2 b
	[z] 2 c
	[z] 2 d
	[z] 3
	[z] 3 a
○ ○	[z] 3 b
	[z] 4
	[z] 4 a
	[z] 5
	[z] 5 a
Y	[z] 6
Q	[z] 7
—	[z] 8

Sign	Number/Key
	
	
	
	
	
	
	
	
	
	
	
	
	

Sign	Number/Key
	z 1 5 g
	z 1 5 h
	z 1 5 i
-	z 1 6
=	z 1 6 a
==	z 1 6 b
==	z 1 6 c
== =	z 1 6 d
== ==	z 1 6 e
== ==	z 1 6 f
== == ==	z 1 6 g
== == ==	z 1 6 h
AA Unclassified	

Sign	Number/Key
	a a 1
	a a 2
	a a 3
	a a 4
	a a 5
	a a 6
	a a 7
	a a 7 a
	a a 7 b
	a a 8
	a a 9
	a a 1 0
	a a 1 1

Sign	Number/Key
	a a 1 2
	a a 1 3
	a a 1 4
	a a 1 5
	a a 1 6
	a a 1 7
	a a 1 8
	a a 1 9
	a a 2 0
	a a 2 1
	a a 2 2
	a a 2 3
	a a 2 4

Sign	Number/Key
	a a 2 5
	a a 2 6
	a a 2 7
	a a 2 8
	a a 2 9
	a a 3 0
	a a 3 1
	a a 3 2

Additional Information

Available Methods for Typing Hieroglyphs

There are three ways to display Ancient Egyptian on a computer:

1. Unicode

This keyboard uses [Unicode](#), the international standard for computer encoding all the world's languages. Hieroglyphs written in Unicode can be treated just like Latin text. They can be searched, sorted, copied and pasted, entered into forms on websites, and typed into word processors. The unfortunate consequence of this versatility is that Unicode text cannot be displayed like real Ancient Egyptian without a great deal of effort. In standard use, anything typed using Unicode will display as a single-file line of characters like a modern alphabet.

This isn't a problem for many situations. If you're sending a short bit of text to a colleague, and you're more concerned with content than formatting, Unicode allows you to type hieroglyphs directly into an email. It also makes algorithmic processing of Ancient Egyptian texts considerably easier. On the other hand, if you need the glyphs to be stacked and aligned properly, you should consider the next option.

2. A Hieroglyphic Text Editor

This is the best way to input hieroglyphs when formatting is a primary concern, i.e. when the text has to look exactly as it would have on a temple wall. These programs provide full control over the placement, size, and orientation of each glyph. The downside is that any text made in a program like this has to be rendered as a graphic before it can be used anywhere else. Once it becomes a graphic, it is impossible to make any changes to the text. It also cannot be entered into text boxes, searched, processed by a computer program, etc.

If proper formatting is an important issue, try using JSesh instead of this keyboard. JSesh is a free, open-source hieroglyphic text editor that provides an extraordinary level of control over formatting.

[Download JSesh](#)

3. An Image

Although it is possible to display hieroglyphs by putting them all in a jpeg, and though many websites still do this, this approach should be avoided at all costs. It is a terrible way to present information. The availability of the first two options should preclude the need to ever display Ancient Egyptian this way ever again.

Keyboard Authorship

This keyboard was created by Christian Casey for Right Said Languages, a project designed to provide free resources to students of Ancient Egyptian languages.