

𐎶𐎵𐎲𐎠𐎧𐎺𐎠 (ʔugrt)

Ugaritic  
and other ancient scripts



—  
An ASCII input method  
—

š l m ʔ u g r t  
𐎶𐎵𐎲𐎠𐎧𐎺𐎠 *well-being for Ugarit*  
š l m t ġ h  
𐎶𐎵𐎲𐎠𐎧𐎺𐎠 *well-being for her gates*

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# 1 Quick Overview

## 1.1 Commands for inline text



Unicode codepoint	
U+10380	➡
\ugtransuc {U+10380} ↦ ➡	

(1)

Items may be accessed via the Unicode codepoint (in hexadecimal format). The command assumes that **\ugfont** has been defined.

Short command: **\uguc {U+10380}** ↦ ➡.

See §3 for a list of Unicode codepoints.

Unicode name	
alpa	➡
\ugtransun {alpa} ↦ ➡	

(2)

Items may be accessed via a shortened form of the Unicode name. The command assumes that **\ugfont** has been defined.

Short command: **\ugun {alpa}** ↦ ➡.

See §4 for a list of Unicode names.

Typing shortcut	
a	➡
\ugtransts {a} ↦ ➡	

(3)

Items may be accessed by typing arbitrarily-defined shortcuts from the keyboard.

The default shortcuts are based on the Latin qwerty keyboard. The command assumes that **\ugfont** has been defined.

Short command: **\ugts {a}** ↦ ➡.

See §5 for the default list of typing shortcuts.

TS-to-ST	
a.	'a
\ugtranstsst {a.} ↦ 'a	

(4)

Typing shortcuts, delimited with a dot (.) when needing to disambiguate, can produce scholarly (standard) transliteration: **dlt 'ugrt s<sub>2</sub>ss**.

Parsing of expressions is from left to right, with the longest shortcuts processed first, so that the sequence **\ugtranstsst {sss}** ↦ **ss** (=ss+s) is different to **\ugtranstsst {s.ss}** ↦ **ss.**

Short command: `\ugst {ashgh}`  $\mapsto$  'ašġ.  
See §6 for the list of transliterations.

### 1.1.1 Inline Styles

Various inline styles are available: word + transliteration; ruby text; glosses.

word (trans)	
a.	▶ ('a)
\ugw {a.} $\mapsto$ ▶▶ ('a)	

(5)




(dlt 'ugrt s<sub>2</sub>ss)

(s<sub>2</sub>) versus 
 (ss'u).

Ruby text	
a.	'a'
$\text{\textbackslash ugruby \{a.\}} \mapsto$	

(6)

d l t 'u g r t s<sub>2</sub> ş s

**Glossing:**    (dlt, 'royal palace guard post')

$$\backslash\text{uggloss } \{\text{dltt}\}\{\text{The Door}\} \mapsto \text{The Door} \text{ (dlt, 'The Door')} \quad (7)$$

## 1.2 Environments

The corresponding environments have an **e** at the end of their name.

Unicode codepoint environment: **ugtransuce**

<code>\begin{ugtransuce}</code>	
U+10380	▶▶
U+10380	▶▶
<code>\end{ugtransuce}</code>	

#### Unicode name environment: **ugtransune**

```
\begin{ugtransune}
beta gamla

delta lamda to
\end{ugtransune}
```



(10)

#### Typing shortcut environment: **ugtranstse**

```
\begin{ugtranstse}
dltt

shlmdivugrtt
\end{ugtranstse}
```



(11)

#### Transliteration environment: **ugtranstsste**

```
\begin{ugtranstsste}
dltt

shlmdivugrtt
\end{ugtranstsste}
```

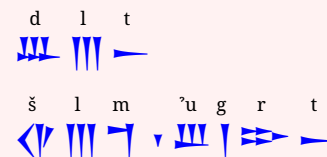
**dltt**  
**šlm 'ugrt**

(12)

#### Ruby text environment: **ugrubbye**

```
\begin{ugrubbye}
dltt


shlmdivugrtt
\end{ugrubbye}
```





### 1.3 Samples

('**ugrt**', 'Ugart')s “ruins are often called **Ras Shamra** after the headland where they lie” – Wikipedia.

“The word (**'il**) is used over five hundred times in the texts from Ugarit.” – Robinson, 28

“The  (**šlm**) sacrifice, for example, appears to reflect a cultic meal in which the offerer partook of the same meal as was offered to the divinity.” – OIN&N, 2002


  (**šlm** **’ugrt**, ‘well-being for Ugarit’)

  (**šlm** **tgh**, ‘well-being for her gates’)











– from A Manual of Ugaritic, p 216

## 2 Usage





Environment ugtransuce inside a quotation environment:

 *italic*   
  **dlt** abc xyz


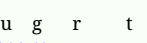







Environment ugtranstse:

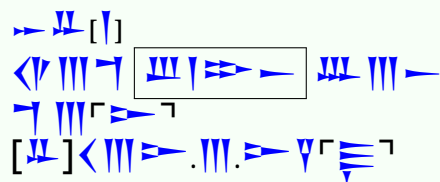
Environment ugtranstsste:

**’ab[g]**  
**šlm**  **dlt**  
**ml**   
**[b]**  **ks** 

Environment ugrubye:

**’a** **b** **g**  
  
**š** **l** **m**  **d** **l** **t**  
    
**m** **l** **k**  
  
**b** **’** **l** **k** **l** **k** **s** **’i**  
  

Environment ugtableture (ugtranstse + ugtranstsste):









'ab[g]  
 šlm'ugrt dlt  
 ml<sup>k</sup>  
 [b]ik.l.ks<sup>i</sup>































---


### 3 List of Unicode codepoints

\ugtransuc {U+10380}	↦	↗
\ugtransuc {U+10381}	↦	↗
\ugtransuc {U+10382}	↦	↓
\ugtransuc {U+10383}	↦	↓
\ugtransuc {U+10384}	↦	↗
\ugtransuc {U+10385}	↦	↗
\ugtransuc {U+10386}	↦	↗
\ugtransuc {U+10387}	↦	↓
\ugtransuc {U+10388}	↦	✕
\ugtransuc {U+10389}	↦	✕
\ugtransuc {U+1038A}	↦	↗
\ugtransuc {U+1038B}	↦	↗
\ugtransuc {U+1038C}	↦	↗
\ugtransuc {U+1038D}	↦	↗
\ugtransuc {U+1038E}	↦	↗
\ugtransuc {U+1038F}	↦	↗
\ugtransuc {U+10390}	↦	↗
\ugtransuc {U+10391}	↦	↗
\ugtransuc {U+10392}	↦	↗
\ugtransuc {U+10393}	↦	↗
\ugtransuc {U+10394}	↦	↗
\ugtransuc {U+10395}	↦	↗
\ugtransuc {U+10396}	↦	↗
\ugtransuc {U+10397}	↦	↗
\ugtransuc {U+10398}	↦	↗
































`\ugtransuc {U+10399}`  $\mapsto$    
`\ugtransuc {U+1039A}`  $\mapsto$    
`\ugtransuc {U+1039B}`  $\mapsto$    
`\ugtransuc {U+1039C}`  $\mapsto$    
`\ugtransuc {U+1039D}`  $\mapsto$    
`\ugtransuc {U+1039F}`  $\mapsto$  

## 4 List of Unicode names

`\ugtransun {alpa}`  $\mapsto$    
`\ugtransun {beta}`  $\mapsto$    
`\ugtransun {gamla}`  $\mapsto$    
`\ugtransun {kha}`  $\mapsto$    
`\ugtransun {delta}`  $\mapsto$    
`\ugtransun {ho}`  $\mapsto$    
`\ugtransun {wo}`  $\mapsto$    
`\ugtransun {zeta}`  $\mapsto$    
`\ugtransun {hota}`  $\mapsto$    
`\ugtransun {tet}`  $\mapsto$    
`\ugtransun {yod}`  $\mapsto$    
`\ugtransun {kaf}`  $\mapsto$    
`\ugtransun {shin}`  $\mapsto$    
`\ugtransun {lamda}`  $\mapsto$    
`\ugtransun {mem}`  $\mapsto$    
`\ugtransun {dhal}`  $\mapsto$    
`\ugtransun {nun}`  $\mapsto$    
`\ugtransun {zu}`  $\mapsto$    
`\ugtransun {samka}`  $\mapsto$    
`\ugtransun {ain}`  $\mapsto$    
`\ugtransun {pu}`  $\mapsto$    
`\ugtransun {sade}`  $\mapsto$    
`\ugtransun {qopa}`  $\mapsto$    
`\ugtransun {rasha}`  $\mapsto$    
`\ugtransun {thanna}`  $\mapsto$    
`\ugtransun {ghain}`  $\mapsto$    
`\ugtransun {to}`  $\mapsto$    
`\ugtransun {i}`  $\mapsto$    
`\ugtransun {u}`  $\mapsto$    
`\ugtransun {ssu}`  $\mapsto$  

`\ugtransun {worddivider}`  $\mapsto$  

## 5 List of Typing shortcuts

`\ugtransts {a}`  $\mapsto$    
`\ugtransts {b}`  $\mapsto$    
`\ugtransts {g}`  $\mapsto$    
`\ugtransts {k}`  $\mapsto$    
`\ugtransts {d}`  $\mapsto$    
`\ugtransts {h}`  $\mapsto$    
`\ugtransts {w}`  $\mapsto$    
`\ugtransts {z}`  $\mapsto$    
`\ugtransts {hh}`  $\mapsto$    
`\ugtransts {t}`  $\mapsto$    
`\ugtransts {y}`  $\mapsto$    
`\ugtransts {kk}`  $\mapsto$    
`\ugtransts {sh}`  $\mapsto$    
`\ugtransts {l}`  $\mapsto$    
`\ugtransts {m}`  $\mapsto$    
`\ugtransts {dh}`  $\mapsto$    
`\ugtransts {n}`  $\mapsto$    
`\ugtransts {zz}`  $\mapsto$    
`\ugtransts {s}`  $\mapsto$    
`\ugtransts {j}`  $\mapsto$    
`\ugtransts {p}`  $\mapsto$    
`\ugtransts {ss}`  $\mapsto$    
`\ugtransts {q}`  $\mapsto$    
`\ugtransts {r}`  $\mapsto$    
`\ugtransts {th}`  $\mapsto$    
`\ugtransts {gh}`  $\mapsto$    
`\ugtransts {tt}`  $\mapsto$    
`\ugtransts {i}`  $\mapsto$    
`\ugtransts {u}`  $\mapsto$    
`\ugtransts {ssu}`  $\mapsto$    
`\ugtransts {div}`  $\mapsto$  

## 6 List of Standard Transliterations

`\ugtranstsst {a}`  $\mapsto$  





$\backslash\text{ugtrantsst } \{b\} \mapsto \mathbf{b}$   
 $\backslash\text{ugtrantsst } \{g\} \mapsto \mathbf{g}$   
 $\backslash\text{ugtrantsst } \{k\} \mapsto \mathbf{h}$   
 $\backslash\text{ugtrantsst } \{d\} \mapsto \mathbf{d}$   
 $\backslash\text{ugtrantsst } \{h\} \mapsto \mathbf{h}$   
 $\backslash\text{ugtrantsst } \{w\} \mapsto \mathbf{w}$   
 $\backslash\text{ugtrantsst } \{z\} \mapsto \mathbf{z}$   
 $\backslash\text{ugtrantsst } \{hh\} \mapsto \mathbf{h}$   
 $\backslash\text{ugtrantsst } \{t\} \mapsto \mathbf{t}$   
 $\backslash\text{ugtrantsst } \{y\} \mapsto \mathbf{y}$   
 $\backslash\text{ugtrantsst } \{kk\} \mapsto \mathbf{k}$   
 $\backslash\text{ugtrantsst } \{sh\} \mapsto \mathbf{\check{s}}$   
 $\backslash\text{ugtrantsst } \{l\} \mapsto \mathbf{l}$   
 $\backslash\text{ugtrantsst } \{m\} \mapsto \mathbf{m}$   
 $\backslash\text{ugtrantsst } \{dh\} \mapsto \mathbf{d}$   
 $\backslash\text{ugtrantsst } \{n\} \mapsto \mathbf{n}$   
 $\backslash\text{ugtrantsst } \{zz\} \mapsto \mathbf{z}$   
 $\backslash\text{ugtrantsst } \{s\} \mapsto \mathbf{s}$   
 $\backslash\text{ugtrantsst } \{j\} \mapsto \mathbf{\check{s}}$   
 $\backslash\text{ugtrantsst } \{p\} \mapsto \mathbf{p}$   
 $\backslash\text{ugtrantsst } \{ss\} \mapsto \mathbf{\check{s}}$   
 $\backslash\text{ugtrantsst } \{q\} \mapsto \mathbf{q}$   
 $\backslash\text{ugtrantsst } \{r\} \mapsto \mathbf{r}$   
 $\backslash\text{ugtrantsst } \{th\} \mapsto \mathbf{t}$   
 $\backslash\text{ugtrantsst } \{gh\} \mapsto \mathbf{\dot{g}}$   
 $\backslash\text{ugtrantsst } \{tt\} \mapsto \mathbf{t}$   
 $\backslash\text{ugtrantsst } \{i\} \mapsto \mathbf{i}$   
 $\backslash\text{ugtrantsst } \{u\} \mapsto \mathbf{u}$   
 $\backslash\text{ugtrantsst } \{ssu\} \mapsto \mathbf{s_2}$   
 $\backslash\text{ugtrantsst } \{\text{div}\} \mapsto$



## 7 Reference Table

Glyph	Transliteration	Shortcut	U-name	Macro	Codepoint
	ʾa	a	alpa	\ugalpa	U+10380
	b	b	beta	\ugbeta	U+10381
	g	g	gamla	\uggamla	U+10382
	ḥ	k	kha	\ugkha	U+10383
	d	d	delta	\ugdelt	U+10384
	h	h	ho	\ugho	U+10385
	w	w	wo	\ugwo	U+10386
	z	z	zeta	\ugzeta	U+10387
	ḥ	hh	hota	\ughota	U+10388
	ṭ	t	tet	\ugtet	U+10389
	y	y	yod	\ugyod	U+1038A
	k	kk	kaf	\ugkaf	U+1038B
	š	sh	shin	\ugshin	U+1038C
	l	l	lamda	\uglamda	U+1038D
	m	m	mem	\ugmem	U+1038E
	ḍ	dh	dhal	\ugdhal	U+1038F
	n	n	nun	\ugnun	U+10390
	ẓ	zz	zu	\ugzu	U+10391
	s	s	samka	\ugsamka	U+10392
	ʿ	j	ain	\ugain	U+10393
	p	p	pu	\ugpu	U+10394
	ṣ	ss	sade	\ugsade	U+10395
	q	q	qopa	\ugqopa	U+10396
	r	r	rasha	\ugrasha	U+10397
	ṭ	th	thanna	\ugthanna	U+10398
	ḡ	gh	ghain	\ugghain	U+10399
	t	tt	to	\ugto	U+1039A
	ʾi	i	i	\ugi	U+1039B
	ʾu	u	u	\ugu	U+1039C
	s <sub>2</sub>	ssu	ssu	\ugssu	U+1039D
		div	worddivider	\ugworddivider	U+1039F

## 8 Anatolian Hieroglyphs

Unicode codepoint	
U+14400	
\ahuc {U+14400} ↦ 	

(13)

Unicode name	
a001	
\ahun {a001} ↦ 	

(14)



## 9 Avestan

𐬱𐬀 𐬱𐬭𐬯𐬭𐬀𐬵𐬀 (vō vatāmi, ‘I understand you’)

Unicode codepoint	
U+10B00	𐬀
\avuc {U+10B00} ↦ 𐬀	

(15)

Unicode name	
a	𐬀
\avun {a} ↦ 𐬀	

(16)

Typing shortcut	
a	𐬀
\avts {a} ↦ 𐬀	

(17)

Transliteration	
aa	ā
\avst {aa} ↦ ā	

(18)

Ruby text	
aaahh	ā ā
\avruby {aaahh} ↦ ā ā	

(19)

<sup>ā</sup> <sup>ā</sup>  
 ← ܡܕܘܢܐܝܐ

Note the reversal: `\avrubby {aa}`  $\mapsto$  ܡ̄ + `\avrubby {ahh}`  $\mapsto$  ܡ̄ܐ comes

<sup>ā</sup> <sup>ā</sup>  
 out as `\avrubby {aaahh}`  $\mapsto$  ܡܡܐܝܐ.

The word ܡܡܐܝܐ (āp) means ‘water’, and ܡܡܐܝܐ (madu, ‘honey’) is ‘mead’.

u d a m p ā  
 ܡܡܐܝܐܡܡܐܝܐ

a n s a y  
 ܡܡܐܝܐܡܡܐܝܐ (yasna)

## 9.1 List of Unicode codepoints

`\avtransuc {U+10B00}`  $\mapsto$  ܐ  
`\avtransuc {U+10B01}`  $\mapsto$  ܐ  
`\avtransuc {U+10B02}`  $\mapsto$  ܐ  
`\avtransuc {U+10B03}`  $\mapsto$  ܐ  
`\avtransuc {U+10B04}`  $\mapsto$  ܐ  
`\avtransuc {U+10B05}`  $\mapsto$  ܐ  
`\avtransuc {U+10B06}`  $\mapsto$  ܐ  
`\avtransuc {U+10B07}`  $\mapsto$  ܐ  
`\avtransuc {U+10B08}`  $\mapsto$  ܐ  
`\avtransuc {U+10B09}`  $\mapsto$  ܐ  
`\avtransuc {U+10B0A}`  $\mapsto$  ܐ  
`\avtransuc {U+10B0B}`  $\mapsto$  ܐ  
`\avtransuc {U+10B0C}`  $\mapsto$  ܐ  
`\avtransuc {U+10B0D}`  $\mapsto$  ܐ  
`\avtransuc {U+10B0E}`  $\mapsto$  ܐ  
`\avtransuc {U+10B0F}`  $\mapsto$  ܐ  
`\avtransuc {U+10B10}`  $\mapsto$  ܐ  
`\avtransuc {U+10B11}`  $\mapsto$  ܐ  
`\avtransuc {U+10B12}`  $\mapsto$  ܐ  
`\avtransuc {U+10B13}`  $\mapsto$  ܐ  
`\avtransuc {U+10B14}`  $\mapsto$  ܐ  
`\avtransuc {U+10B15}`  $\mapsto$  ܐ  
`\avtransuc {U+10B16}`  $\mapsto$  ܐ  
`\avtransuc {U+10B17}`  $\mapsto$  ܐ  
`\avtransuc {U+10B18}`  $\mapsto$  ܐ  
`\avtransuc {U+10B19}`  $\mapsto$  ܐ  
`\avtransuc {U+10B1A}`  $\mapsto$  ܐ  
`\avtransuc {U+10B1B}`  $\mapsto$  ܐ

`\avtransuc {U+10B1C}`  $\mapsto$  ᄀ  
`\avtransuc {U+10B1D}`  $\mapsto$  ᄁ  
`\avtransuc {U+10B1E}`  $\mapsto$  ᄂ  
`\avtransuc {U+10B1F}`  $\mapsto$  ᄃ  
`\avtransuc {U+10B20}`  $\mapsto$  ᄄ  
`\avtransuc {U+10B21}`  $\mapsto$  ᄅ  
`\avtransuc {U+10B22}`  $\mapsto$  ᄆ  
`\avtransuc {U+10B23}`  $\mapsto$  ᄇ  
`\avtransuc {U+10B24}`  $\mapsto$  ᄈ  
`\avtransuc {U+10B25}`  $\mapsto$  ᄉ  
`\avtransuc {U+10B26}`  $\mapsto$  ᄊ  
`\avtransuc {U+10B27}`  $\mapsto$  ᄋ  
`\avtransuc {U+10B28}`  $\mapsto$  ᄌ  
`\avtransuc {U+10B29}`  $\mapsto$  ᄍ  
`\avtransuc {U+10B2A}`  $\mapsto$  ᄎ  
`\avtransuc {U+10B2B}`  $\mapsto$  ᄏ  
`\avtransuc {U+10B2C}`  $\mapsto$  ᄐ  
`\avtransuc {U+10B2D}`  $\mapsto$  ᄑ  
`\avtransuc {U+10B2E}`  $\mapsto$  ᄒ  
`\avtransuc {U+10B2F}`  $\mapsto$  ᄓ  
`\avtransuc {U+10B30}`  $\mapsto$  ᄔ  
`\avtransuc {U+10B31}`  $\mapsto$  ᄕ  
`\avtransuc {U+10B32}`  $\mapsto$  ᄌ  
`\avtransuc {U+10B33}`  $\mapsto$  ᄍ  
`\avtransuc {U+10B34}`  $\mapsto$  ᄎ  
`\avtransuc {U+10B35}`  $\mapsto$  ᄏ  
`\avtransuc {U+10B39}`  $\mapsto$  ᄐ  
`\avtransuc {U+10B3A}`  $\mapsto$  ᄑ  
`\avtransuc {U+10B3B}`  $\mapsto$  ᄒ  
`\avtransuc {U+10B3C}`  $\mapsto$  ᄓ  
`\avtransuc {U+10B3D}`  $\mapsto$  ᄔ  
`\avtransuc {U+10B3E}`  $\mapsto$  ᄕ  
`\avtransuc {U+10B3F}`  $\mapsto$  ᄌ

## 9.2 List of Unicode names

`\avtransun {a}`  $\mapsto$  ᄀ  
`\avtransun {aa}`  $\mapsto$  ᄁ  
`\avtransun {ao}`  $\mapsto$  ᄂ  
`\avtransun {aao}`  $\mapsto$  ᄃ  
`\avtransun {an}`  $\mapsto$  ᄄ  
`\avtransun {aan}`  $\mapsto$  ᄅ  
`\avtransun {ae}`  $\mapsto$  ᄆ  
`\avtransun {aee}`  $\mapsto$  ᄇ

<code>\avtransun {e}</code>	$\mapsto$	ᵉ
<code>\avtransun {ee}</code>	$\mapsto$	ᵉᵉ
<code>\avtransun {o}</code>	$\mapsto$	ᵒ
<code>\avtransun {oo}</code>	$\mapsto$	ᵒᵒ
<code>\avtransun {i}</code>	$\mapsto$	ᵢ
<code>\avtransun {ii}</code>	$\mapsto$	ᵢᵢ
<code>\avtransun {u}</code>	$\mapsto$	ᵘ
<code>\avtransun {uu}</code>	$\mapsto$	ᵘᵘ
<code>\avtransun {ke}</code>	$\mapsto$	ᵏᵉ
<code>\avtransun {xe}</code>	$\mapsto$	ˣᵉ
<code>\avtransun {xye}</code>	$\mapsto$	ˣʸᵉ
<code>\avtransun {xve}</code>	$\mapsto$	ˣᵛᵉ
<code>\avtransun {ge}</code>	$\mapsto$	ᵍᵉ
<code>\avtransun {gge}</code>	$\mapsto$	ᵍᵍᵉ
<code>\avtransun {ghe}</code>	$\mapsto$	ᵍʰᵉ
<code>\avtransun {ce}</code>	$\mapsto$	ᶜᵉ
<code>\avtransun {je}</code>	$\mapsto$	ʲᵉ
<code>\avtransun {te}</code>	$\mapsto$	ᵗᵉ
<code>\avtransun {the}</code>	$\mapsto$	ᵗʰᵉ
<code>\avtransun {de}</code>	$\mapsto$	ᵈᵉ
<code>\avtransun {dhe}</code>	$\mapsto$	ᵈʰᵉ
<code>\avtransun {tte}</code>	$\mapsto$	ᵗᵗᵉ
<code>\avtransun {pe}</code>	$\mapsto$	ᵖᵉ
<code>\avtransun {fe}</code>	$\mapsto$	ᶠᵉ
<code>\avtransun {be}</code>	$\mapsto$	ᵇᵉ
<code>\avtransun {bhe}</code>	$\mapsto$	ᵇʰᵉ
<code>\avtransun {nge}</code>	$\mapsto$	ⁿᵉ
<code>\avtransun {ngye}</code>	$\mapsto$	ⁿᵍʸᵉ
<code>\avtransun {ngve}</code>	$\mapsto$	ⁿᵍᵛᵉ
<code>\avtransun {ne}</code>	$\mapsto$	ⁿᵉ
<code>\avtransun {nye}</code>	$\mapsto$	ⁿʸᵉ
<code>\avtransun {nne}</code>	$\mapsto$	ⁿⁿᵉ
<code>\avtransun {me}</code>	$\mapsto$	ᵐᵉ
<code>\avtransun {hme}</code>	$\mapsto$	ʰᵐᵉ
<code>\avtransun {yye}</code>	$\mapsto$	ʸʸᵉ
<code>\avtransun {ye}</code>	$\mapsto$	ʸᵉ
<code>\avtransun {ve}</code>	$\mapsto$	ᵛᵉ
<code>\avtransun {re}</code>	$\mapsto$	ʳᵉ
<code>\avtransun {le}</code>	$\mapsto$	ˡᵉ
<code>\avtransun {se}</code>	$\mapsto$	ˢᵉ
<code>\avtransun {ze}</code>	$\mapsto$	ᶻᵉ
<code>\avtransun {she}</code>	$\mapsto$	ˢʰᵉ
<code>\avtransun {zhe}</code>	$\mapsto$	ᶻᵉ

`\avtransun {shye}`  $\mapsto$  ສຸ  
`\avtransun {sshe}`  $\mapsto$  ສຸ  
`\avtransun {he}`  $\mapsto$  ອຸ  
`\avtransun {abbreviationmark}`  $\mapsto$  °  
`\avtransun {p1}`  $\mapsto$  ∴  
`\avtransun {p2}`  $\mapsto$  ∴  
`\avtransun {p3}`  $\mapsto$  ∴  
`\avtransun {p4}`  $\mapsto$  ∴  
`\avtransun {p5}`  $\mapsto$  ∴  
`\avtransun {p6}`  $\mapsto$  ∴

### 9.3 List of Typing shortcuts

`\avtransts {a}`  $\mapsto$  າ  
`\avtransts {aa}`  $\mapsto$  າ  
`\avtransts {ah}`  $\mapsto$  າ  
`\avtransts {ahh}`  $\mapsto$  າ  
`\avtransts {au}`  $\mapsto$  າ  
`\avtransts {auu}`  $\mapsto$  າ  
`\avtransts {eh}`  $\mapsto$  າ  
`\avtransts {ehh}`  $\mapsto$  າ  
`\avtransts {e}`  $\mapsto$  າ  
`\avtransts {ee}`  $\mapsto$  າ  
`\avtransts {o}`  $\mapsto$  າ  
`\avtransts {oo}`  $\mapsto$  າ  
`\avtransts {i}`  $\mapsto$  າ  
`\avtransts {ii}`  $\mapsto$  າ  
`\avtransts {u}`  $\mapsto$  າ  
`\avtransts {uu}`  $\mapsto$  າ  
`\avtransts {k}`  $\mapsto$  າ  
`\avtransts {x}`  $\mapsto$  າ  
`\avtransts {xx}`  $\mapsto$  າ  
`\avtransts {xv}`  $\mapsto$  າ  
`\avtransts {g}`  $\mapsto$  າ  
`\avtransts {gg}`  $\mapsto$  າ  
`\avtransts {gh}`  $\mapsto$  າ  
`\avtransts {c}`  $\mapsto$  າ  
`\avtransts {j}`  $\mapsto$  າ  
`\avtransts {t}`  $\mapsto$  າ  
`\avtransts {th}`  $\mapsto$  າ  
`\avtransts {d}`  $\mapsto$  າ  
`\avtransts {dh}`  $\mapsto$  າ  
`\avtransts {tt}`  $\mapsto$  າ  
`\avtransts {p}`  $\mapsto$  າ

`\avtransts {f}`  $\mapsto$   $\text{f}$   
`\avtransts {b}`  $\mapsto$   $\text{b}$   
`\avtransts {w}`  $\mapsto$   $\text{w}$   
`\avtransts {ng}`  $\mapsto$   $\text{ng}$   
`\avtransts {ngj}`  $\mapsto$   $\text{ngj}$   
`\avtransts {ngw}`  $\mapsto$   $\text{ngw}$   
`\avtransts {n}`  $\mapsto$   $\text{n}$   
`\avtransts {ny}`  $\mapsto$   $\text{ny}$   
`\avtransts {nny}`  $\mapsto$   $\text{nny}$   
`\avtransts {m}`  $\mapsto$   $\text{m}$   
`\avtransts {mh}`  $\mapsto$   $\text{mh}$   
`\avtransts {yy}`  $\mapsto$   $\text{yy}$   
`\avtransts {y}`  $\mapsto$   $\text{y}$   
`\avtransts {v}`  $\mapsto$   $\text{v}$   
`\avtransts {r}`  $\mapsto$   $\text{r}$   
`\avtransts {l}`  $\mapsto$   $\text{l}$   
`\avtransts {s}`  $\mapsto$   $\text{s}$   
`\avtransts {z}`  $\mapsto$   $\text{z}$   
`\avtransts {sh}`  $\mapsto$   $\text{sh}$   
`\avtransts {zh}`  $\mapsto$   $\text{zh}$   
`\avtransts {ssh}`  $\mapsto$   $\text{ssh}$   
`\avtransts {ss}`  $\mapsto$   $\text{ss}$   
`\avtransts {h}`  $\mapsto$   $\text{h}$   
`\avtransts {'}`  $\mapsto$   $\text{'}$   
`\avtransts {p1}`  $\mapsto$   $\text{p1}$   
`\avtransts {p2}`  $\mapsto$   $\text{p2}$   
`\avtransts {p3}`  $\mapsto$   $\text{p3}$   
`\avtransts {p4}`  $\mapsto$   $\text{p4}$   
`\avtransts {p5}`  $\mapsto$   $\text{p5}$   
`\avtransts {p6}`  $\mapsto$   $\text{p6}$

## 9.4 List of Standard Transliterations

`\avtranstsst {a}`  $\mapsto$   $\text{a}$   
`\avtranstsst {aa}`  $\mapsto$   $\text{ā}$   
`\avtranstsst {ah}`  $\mapsto$   $\text{ǎ}$   
`\avtranstsst {ahh}`  $\mapsto$   $\text{ǎ̇}$   
`\avtranstsst {au}`  $\mapsto$   $\text{ą}$   
`\avtranstsst {auu}`  $\mapsto$   $\text{ą̇}$   
`\avtranstsst {eh}`  $\mapsto$   $\text{ə}$   
`\avtranstsst {ehh}`  $\mapsto$   $\text{ē}$   
`\avtranstsst {e}`  $\mapsto$   $\text{e}$   
`\avtranstsst {ee}`  $\mapsto$   $\text{ē}$   
`\avtranstsst {o}`  $\mapsto$   $\text{o}$



$\backslash\text{avtrantsst}\{oo\} \mapsto \bar{o}$   
 $\backslash\text{avtrantsst}\{i\} \mapsto i$   
 $\backslash\text{avtrantsst}\{ii\} \mapsto \bar{i}$   
 $\backslash\text{avtrantsst}\{u\} \mapsto u$   
 $\backslash\text{avtrantsst}\{uu\} \mapsto \bar{u}$   
 $\backslash\text{avtrantsst}\{k\} \mapsto k$   
 $\backslash\text{avtrantsst}\{x\} \mapsto x$   
 $\backslash\text{avtrantsst}\{xx\} \mapsto \acute{x}$   
 $\backslash\text{avtrantsst}\{xv\} \mapsto x^v$   
 $\backslash\text{avtrantsst}\{g\} \mapsto g$   
 $\backslash\text{avtrantsst}\{gg\} \mapsto \dot{g}$   
 $\backslash\text{avtrantsst}\{gh\} \mapsto \gamma$   
 $\backslash\text{avtrantsst}\{c\} \mapsto c$   
 $\backslash\text{avtrantsst}\{j\} \mapsto j$   
 $\backslash\text{avtrantsst}\{t\} \mapsto t$   
 $\backslash\text{avtrantsst}\{th\} \mapsto \theta$   
 $\backslash\text{avtrantsst}\{d\} \mapsto d$   
 $\backslash\text{avtrantsst}\{dh\} \mapsto \delta$   
 $\backslash\text{avtrantsst}\{tt\} \mapsto \mathfrak{t}$   
 $\backslash\text{avtrantsst}\{p\} \mapsto p$   
 $\backslash\text{avtrantsst}\{f\} \mapsto f$   
 $\backslash\text{avtrantsst}\{b\} \mapsto b$   
 $\backslash\text{avtrantsst}\{w\} \mapsto \beta$   
 $\backslash\text{avtrantsst}\{ng\} \mapsto \eta$   
 $\backslash\text{avtrantsst}\{ngj\} \mapsto \acute{\eta}$   
 $\backslash\text{avtrantsst}\{ngw\} \mapsto \eta^v$   
 $\backslash\text{avtrantsst}\{n\} \mapsto n$   
 $\backslash\text{avtrantsst}\{ny\} \mapsto \acute{n}$   
 $\backslash\text{avtrantsst}\{nny\} \mapsto \mathfrak{n}$   
 $\backslash\text{avtrantsst}\{m\} \mapsto m$   
 $\backslash\text{avtrantsst}\{mh\} \mapsto \mathfrak{m}$   
 $\backslash\text{avtrantsst}\{yy\} \mapsto \acute{y}$   
 $\backslash\text{avtrantsst}\{y\} \mapsto y$   
 $\backslash\text{avtrantsst}\{v\} \mapsto v$   
 $\backslash\text{avtrantsst}\{r\} \mapsto r$   
 $\backslash\text{avtrantsst}\{l\} \mapsto l$   
 $\backslash\text{avtrantsst}\{s\} \mapsto s$   
 $\backslash\text{avtrantsst}\{z\} \mapsto z$   
 $\backslash\text{avtrantsst}\{sh\} \mapsto \acute{s}$   
 $\backslash\text{avtrantsst}\{zh\} \mapsto \acute{z}$   
 $\backslash\text{avtrantsst}\{ssh\} \mapsto \acute{\acute{s}}$   
 $\backslash\text{avtrantsst}\{ss\} \mapsto \acute{s}$   
 $\backslash\text{avtrantsst}\{h\} \mapsto h$   
 $\backslash\text{avtrantsst}\{'\} \mapsto '$   
 $\backslash\text{avtrantsst}\{p1\} \mapsto p1$   
 $\backslash\text{avtrantsst}\{p2\} \mapsto p2$

`\avtrantsst {p3}`  $\mapsto$  p3  
`\avtrantsst {p4}`  $\mapsto$  p4  
`\avtrantsst {p5}`  $\mapsto$  p5  
`\avtrantsst {p6}`  $\mapsto$  p6

## 9.5 Reference table

Glyph	Transliteration	Shortcut	U-name	Macro	Codepoint
ᵃ	a	a	a	\ava	U+10B00
ᵃ̄	ā	aa	aa	\avaa	U+10B01
ᵃᵃ	å	ah	ao	\avao	U+10B02
ᵃᵃᵃ	ǎ	ahh	aao	\avaao	U+10B03
ᵃᵃᵃ	ą	au	an	\avan	U+10B04
ᵃᵃᵃᵃ	â	auu	aan	\avaan	U+10B05
ᵃᵃᵃᵃᵃ	ə	eh	ae	\avae	U+10B06
ᵃᵃᵃᵃᵃᵃ	ē	ehh	aee	\avaee	U+10B07
ᵃᵃᵃᵃᵃᵃᵃ	e	e	e	\ave	U+10B08
ᵃᵃᵃᵃᵃᵃᵃᵃ	ē	ee	ee	\avee	U+10B09
ᵃᵃᵃᵃᵃᵃᵃᵃᵃ	o	o	o	\avo	U+10B0A
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	ō	oo	oo	\avoo	U+10B0B
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	i	i	i	\avi	U+10B0C
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	ī	ii	ii	\avii	U+10B0D
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	u	u	u	\avu	U+10B0E
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	ū	uu	uu	\avuu	U+10B0F
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	k	k	ke	\avke	U+10B10
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	x	x	xe	\avxe	U+10B11
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	́	xx	xve	\avxve	U+10B12
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	x <sup>v</sup>	xv	xve	\avxve	U+10B13
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	g	g	ge	\avge	U+10B14
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	ġ	gg	gge	\avgge	U+10B15
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	γ	gh	ghe	\avghe	U+10B16
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	c	c	ce	\avce	U+10B17
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	j	j	je	\avje	U+10B18
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	t	t	te	\avte	U+10B19
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	θ	th	the	\avthe	U+10B1A
ᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃᵃ	d	d	de	\avde	U+10B1B

ᄒ	ᄑ	dh	dhe	\avdhe	U+10B1C
ᄒ	ᄑ	tt	tte	\avtte	U+10B1D
ᄒ	p	p	pe	\avpe	U+10B1E
ᄒ	f	f	fe	\avfe	U+10B1F
ᄒ	b	b	be	\avbe	U+10B20
ᄒ	ᄑ	w	bhe	\avbhe	U+10B21
ᄒ	ᄑ	ng	nge	\avnge	U+10B22
ᄒ	ᄑ	ngj	ngye	\avngye	U+10B23
ᄒ	ᄑ <sup>v</sup>	ngw	ngve	\avngve	U+10B24
ᄒ	n	n	ne	\avne	U+10B25
ᄒ	ᄑ	ny	nye	\avnye	U+10B26
ᄒ	ᄑ	nny	nne	\avnne	U+10B27
ᄒ	m	m	me	\avme	U+10B28
ᄒ	ᄑ	mh	hme	\avhme	U+10B29
ᄒ	ᄑ	yy	yye	\avyye	U+10B2A
ᄒ	y	y	ye	\avye	U+10B2B
ᄒ	v	v	ve	\avve	U+10B2C
ᄒ	r	r	re	\avre	U+10B2D
ᄒ	l	l	le	\avle	U+10B2E
ᄒ	s	s	se	\avse	U+10B2F
ᄒ	z	z	ze	\avze	U+10B30
ᄒ	ᄑ	sh	she	\avshe	U+10B31
ᄒ	ᄑ	zh	zhe	\avzhe	U+10B32
ᄒ	ᄑ	ssh	shye	\avshye	U+10B33
ᄒ	ᄑ	ss	sshe	\avsshe	U+10B34
ᄒ	h	h	he	\avhe	U+10B35
ᄒ	,	,	abbreviationmark	\avabbreviationmark	U+10B39
ᄒ	p1	p1	p1	\avpi	U+10B3A
ᄒ	p2	p2	p2	\avpii	U+10B3B
ᄒ	p3	p3	p3	\avpiii	U+10B3C
ᄒ	p4	p4	p4	\avpiv	U+10B3D
ᄒ	p5	p5	p5	\avpv	U+10B3E
ᄒ	p6	p6	p6	\avpvi	U+10B3F

## 10 Brahmi

Unicode codepoint	
U+11005	𑀅
\bruc {U+11005} $\mapsto$ 𑀅	

(20)

Unicode name	
kaaa	𑀅
\brun {kaaa} $\mapsto$ 𑀅	

(21)

𑀅𑀆𑀇𑀈𑀉𑀊𑀋𑀌𑀍𑀎𑀏𑀐𑀑𑀒𑀓𑀔𑀕𑀖𑀗𑀘𑀙𑀚𑀛𑀜𑀝𑀞𑀟𑀠𑀡𑀢𑀣𑀤𑀥𑀦𑀧𑀨𑀩𑀪𑀫𑀬𑀭𑀮𑀯𑀰𑀱𑀲𑀳𑀴𑀵𑀶𑀷𑀸𑀹𑀺𑀻𑀼𑀽𑀾𑀿𑁀𑁁𑁂𑁃𑁄𑁅𑁆𑁇𑁈𑁉𑁊𑁋𑁌𑁍𑁎𑁏𑁐𑁑𑁒𑁓𑁔𑁕𑁖𑁗𑁘𑁙𑁚𑁛𑁜𑁝𑁞𑁟𑁠𑁡𑁢𑁣𑁤𑁥𑁦𑁧𑁨𑁩𑁪𑁫𑁬𑁭𑁮𑁯𑁰𑁱𑁲𑁳𑁴𑁵𑁶𑁷𑁸𑁹𑁺𑁻𑁼𑁽𑁾𑁿𑂀𑂁𑂂𑂃𑂄𑂅𑂆𑂇𑂈𑂉𑂊𑂋𑂌𑂍𑂎𑂏𑂐𑂑𑂒𑂓𑂔𑂕𑂖𑂗𑂘𑂙𑂚𑂛𑂜𑂝𑂞𑂟𑂠𑂡𑂢𑂣𑂤𑂥𑂦𑂧𑂨𑂩𑂪𑂫𑂬𑂭𑂮𑂯𑂰𑂱𑂲𑂳𑂴𑂵𑂶𑂷𑂸𑂺𑂹𑂻𑂼𑂽𑂾𑂿𑃀𑃁𑃂𑃃𑃄𑃅𑃆𑃇𑃈𑃉𑃊𑃋𑃌𑃍𑃎𑃏𑃐𑃑𑃒𑃓𑃔𑃕𑃖𑃗𑃘𑃙𑃚𑃛𑃜𑃝𑃞𑃟𑃠𑃡𑃢𑃣𑃤𑃥𑃦𑃧𑃨𑃩𑃪𑃫𑃬𑃭𑃮𑃯𑃰𑃱𑃲𑃳𑃴𑃵𑃶𑃷𑃸𑃹𑃺𑃻𑃼𑃽𑃾𑃿𑄀𑄁𑄂𑄃𑄄𑄅𑄆𑄇𑄈𑄉𑄊𑄋𑄌𑄍𑄎𑄏𑄐𑄑𑄒𑄓𑄔𑄕𑄖𑄗𑄘𑄙𑄚𑄛𑄜𑄝𑄞𑄟𑄠𑄡𑄢𑄣𑄤𑄥𑄦𑄧𑄨𑄩𑄪𑄫𑄬𑄭𑄮𑄯𑄰𑄱𑄲𑄳𑄴𑄵𑄶𑄷𑄸𑄹𑄺𑄻𑄼𑄽𑄾𑄿𑅀𑅁𑅂𑅃𑅄𑅅𑅆𑅇𑅈𑅉𑅊𑅋𑅌𑅍𑅎𑅏𑅐𑅑𑅒𑅓𑅔𑅕𑅖𑅗𑅘𑅙𑅚𑅛𑅜𑅝𑅞𑅟𑅠𑅡𑅢𑅣𑅤𑅥𑅦𑅧𑅨𑅩𑅪𑅫𑅬𑅭𑅮𑅯𑅰𑅱𑅲𑅳𑅴𑅵𑅶𑅷𑅸𑅹𑅺𑅻𑅼𑅽𑅾𑅿𑆀𑆁𑆂𑆃𑆄𑆅𑆆𑆇𑆈𑆉𑆊𑆋𑆌𑆍𑆎𑆏𑆐𑆑𑆒𑆓𑆔𑆕𑆖𑆗𑆘𑆙𑆚𑆛𑆜𑆝𑆞𑆟𑆠𑆡𑆢𑆣𑆤𑆥𑆦𑆧𑆨𑆩𑆪𑆫𑆬𑆭𑆮𑆯𑆰𑆱𑆲𑆳𑆴𑆵𑆶𑆷𑆸𑆹𑆺𑆻𑆼𑆽𑆾𑆿𑇀𑇁𑇂𑇃𑇄𑇅𑇆𑇇𑇈𑇉𑇊𑇋𑇌𑇍𑇎𑇏𑇐𑇑𑇒𑇓𑇔𑇕𑇖𑇗𑇘𑇙𑇚𑇛𑇜𑇝𑇞𑇟𑇠𑇡𑇢𑇣𑇤𑇥𑇦𑇧𑇨𑇩𑇪𑇫𑇬𑇭𑇮𑇯𑇰𑇱𑇲𑇳𑇴𑇵𑇶𑇷𑇸𑇹𑇺𑇻𑇼𑇽𑇾𑇿𑈀𑈁𑈂𑈃𑈄𑈅𑈆𑈇𑈈𑈉𑈊𑈋𑈌𑈍𑈎𑈏𑈐𑈑𑈒𑈓𑈔𑈕𑈖𑈗𑈘𑈙𑈚𑈛𑈜𑈝𑈞𑈟𑈠𑈡𑈢𑈣𑈤𑈥𑈦𑈧𑈨𑈩𑈪𑈫𑈬𑈭𑈮𑈯𑈰𑈱𑈲𑈳𑈴𑈶𑈵𑈷𑈸𑈹𑈺𑈻𑈼𑈽𑈾𑈿𑉀𑉁𑉂𑉃𑉄𑉅𑉆𑉇𑉈𑉉𑉊𑉋𑉌𑉍𑉎𑉏𑉐𑉑𑉒𑉓𑉔𑉕𑉖𑉗𑉘𑉙𑉚𑉛𑉜𑉝𑉞𑉟𑉠𑉡𑉢𑉣𑉤𑉥𑉦𑉧𑉨𑉩𑉪𑉫𑉬𑉭𑉮𑉯𑉰𑉱𑉲𑉳𑉴𑉵𑉶𑉷𑉸𑉹𑉺𑉻𑉼𑉽𑉾𑉿𑊀𑊁𑊂𑊃𑊄𑊅𑊆𑊇𑊈𑊉𑊊𑊋𑊌𑊍𑊎𑊏𑊐𑊑𑊒𑊓𑊔𑊕𑊖𑊗𑊘𑊙𑊚𑊛𑊜𑊝𑊞𑊟𑊠𑊡𑊢𑊣𑊤𑊥𑊦𑊧𑊨𑊩𑊪𑊫𑊬𑊭𑊮𑊯𑊰𑊱𑊲𑊳𑊴𑊵𑊶𑊷𑊸𑊹𑊺𑊻𑊼𑊽𑊾𑊿𑋀𑋁𑋂𑋃𑋄𑋅𑋆𑋇𑋈𑋉𑋊𑋋𑋌𑋍𑋎𑋏𑋐𑋑𑋒𑋓𑋔𑋕𑋖𑋗𑋘𑋙𑋚𑋛𑋜𑋝𑋞𑋟𑋠𑋡𑋢𑋣𑋤𑋥𑋦𑋧𑋨𑋩𑋪𑋫𑋬𑋭𑋮𑋯𑋰𑋱𑋲𑋳𑋴𑋵𑋶𑋷𑋸𑋹𑋺𑋻𑋼𑋽𑋾𑋿𑌀𑌁𑌂𑌃𑌄𑌅𑌆𑌇𑌈𑌉𑌊𑌋𑌌𑌍𑌎𑌏𑌐𑌑𑌒𑌓𑌔𑌕𑌖𑌗𑌘𑌙𑌚𑌛𑌜𑌝𑌞𑌟𑌠𑌡𑌢𑌣𑌤𑌥𑌦𑌧𑌨𑌩𑌪𑌫𑌬𑌭𑌮𑌯𑌰𑌱𑌲𑌳𑌴𑌵𑌶𑌷𑌸𑌹𑌺𑌻𑌼𑌽𑌾𑌿𑍀𑍁𑍂𑍃𑍄𑍅𑍆𑍇𑍈𑍉𑍊𑍋𑍌𑍍𑍎𑍏𑍐𑍑𑍒𑍓𑍔𑍕𑍖𑍗𑍘𑍙𑍚𑍛𑍜𑍝𑍞𑍟𑍠𑍡𑍢𑍣𑍤𑍥𑍦𑍧𑍨𑍩𑍪𑍫𑍬𑍭𑍮𑍯𑍰𑍱𑍲𑍳𑍴𑍵𑍶𑍷𑍸𑍹𑍺𑍻𑍼𑍽𑍾𑍿𑎀𑎁𑎂𑎃𑎄𑎅𑎆𑎇𑎈𑎉𑎊𑎋𑎌𑎍𑎎𑎏𑎐𑎑𑎒𑎓𑎔𑎕𑎖𑎗𑎘𑎙𑎚𑎛𑎜𑎝𑎞𑎟𑎠𑎡𑎢𑎣𑎤𑎥𑎦𑎧𑎨𑎩𑎪𑎫𑎬𑎭𑎮𑎯𑎰𑎱𑎲𑎳𑎴𑎵𑎶𑎷𑎸𑎹𑎺𑎻𑎼𑎽𑎾𑎿𑏀𑏁𑏂𑏃𑏄𑏅𑏆𑏇𑏈𑏉𑏊𑏋𑏌𑏍𑏎𑏏𑏐𑏑𑏒𑏓𑏔𑏕𑏖𑏗𑏘𑏙𑏚𑏛𑏜𑏝𑏞𑏟𑏠𑏡𑏢𑏣𑏤𑏥𑏦𑏧𑏨𑏩𑏪𑏫𑏬𑏭𑏮𑏯𑏰𑏱𑏲𑏳𑏴𑏵𑏶𑏷𑏸𑏹𑏺𑏻𑏼𑏽𑏾𑏿𑐀𑐁𑐂𑐃𑐄𑐅𑐆𑐇𑐈𑐉𑐊𑐋𑐌𑐍𑐎𑐏𑐐𑐑𑐒𑐓𑐔𑐕𑐖𑐗𑐘𑐙𑐚𑐛𑐜𑐝𑐞𑐟𑐠𑐡𑐢𑐣𑐤𑐥𑐦𑐧𑐨𑐩𑐪𑐫𑐬𑐭𑐮𑐯𑐰𑐱𑐲𑐳𑐴𑐵𑐶𑐷𑐸𑐹𑐺𑐻𑐼𑐽𑐾𑐿𑑀𑑁𑑂𑑃𑑄𑑅𑑆𑑇𑑈𑑉𑑊𑑋𑑌𑑍𑑎𑑏𑑐𑑑𑑒𑑓𑑔𑑕𑑖𑑗𑑘𑑙𑑚𑑛𑑜𑑝𑑞𑑟𑑠𑑡𑑢𑑣𑑤𑑥𑑦𑑧𑑨𑑩𑑪𑑫𑑬𑑭𑑮𑑯𑑰𑑱𑑲𑑳𑑴𑑵𑑶𑑷𑑸𑑹𑑺𑑻𑑼𑑽𑑾𑑿𑒀𑒁𑒂𑒃𑒄𑒅𑒆𑒇𑒈𑒉𑒊𑒋𑒌𑒍𑒎𑒏𑒐𑒑𑒒𑒓𑒔𑒕𑒖𑒗𑒘𑒙𑒚𑒛𑒜𑒝𑒞𑒟𑒠𑒡𑒢𑒣𑒤𑒥𑒦𑒧𑒨𑒩𑒪𑒫𑒬𑒭𑒮𑒯𑒰𑒱𑒲𑒳𑒴𑒵𑒶𑒷𑒸𑒻𑒻𑒼𑒽𑒾𑒿𑓀𑓁𑓃𑓂𑓄𑓅𑓆𑓇𑓈𑓉𑓊𑓋𑓌𑓍𑓎𑓏𑓐𑓑𑓒𑓓𑓔𑓕𑓖𑓗𑓘𑓙𑓚𑓛𑓜𑓝𑓞𑓟𑓠𑓡𑓢𑓣𑓤𑓥𑓦𑓧𑓨𑓩𑓪𑓫𑓬𑓭𑓮𑓯𑓰𑓱𑓲𑓳𑓴𑓵𑓶𑓷𑓸𑓹𑓺𑓻𑓼𑓽𑓾𑓿𑔀𑔁𑔂𑔃𑔄𑔅𑔆𑔇𑔈𑔉𑔊𑔋𑔌𑔍𑔎𑔏𑔐𑔑𑔒𑔓𑔔𑔕𑔖𑔗𑔘𑔙𑔚𑔛𑔜𑔝𑔞𑔟𑔠𑔡𑔢𑔣𑔤𑔥𑔦𑔧𑔨𑔩𑔪𑔫𑔬𑔭𑔮𑔯𑔰𑔱𑔲𑔳𑔴𑔵𑔶𑔷𑔸𑔹𑔺𑔻𑔼𑔽𑔾𑔿𑕀𑕁𑕂𑕃𑕄𑕅𑕆𑕇𑕈𑕉𑕊𑕋𑕌𑕍𑕎𑕏𑕐𑕑𑕒𑕓𑕔𑕕𑕖𑕗𑕘𑕙𑕚𑕛𑕜𑕝𑕞𑕟𑕠𑕡𑕢𑕣𑕤𑕥𑕦𑕧𑕨𑕩𑕪𑕫𑕬𑕭𑕮𑕯𑕰𑕱𑕲𑕳𑕴𑕵𑕶𑕷𑕸𑕹𑕺𑕻𑕼𑕽𑕾𑕿𑖀𑖁𑖂𑖃𑖄𑖅𑖆𑖇𑖈𑖉𑖊𑖋𑖌𑖍𑖎𑖏𑖐𑖑𑖒𑖓𑖔𑖕𑖖𑖗𑖘𑖙𑖚𑖛𑖜𑖝𑖞𑖟𑖠𑖡𑖢𑖣𑖤𑖥𑖦𑖧𑖨𑖩𑖪𑖫𑖬𑖭𑖮𑖯𑖰𑖱𑖲𑖳𑖴𑖵𑖶𑖷𑖸𑖹𑖺𑖻𑖼𑖽𑖾𑗀𑖿𑗁𑗂𑗃𑗄𑗅𑗆𑗇𑗈𑗉𑗊𑗋𑗌𑗍𑗎𑗏𑗐𑗑𑗒𑗓𑗔𑗕𑗖𑗗𑗘𑗙𑗚𑗛𑗜𑗝𑗞𑗟𑗠𑗡𑗢𑗣𑗤𑗥𑗦𑗧𑗨𑗩𑗪𑗫𑗬𑗭𑗮𑗯𑗰𑗱𑗲𑗳𑗴𑗵𑗶𑗷𑗸𑗹𑗺𑗻𑗼𑗽𑗾𑗿𑘀𑘁𑘂𑘃𑘄𑘅𑘆𑘇𑘈𑘉𑘊𑘋𑘌𑘍𑘎𑘏𑘐𑘑𑘒𑘓𑘔𑘕𑘖𑘗𑘘𑘙𑘚𑘛𑘜𑘝𑘞𑘟𑘠𑘡𑘢𑘣𑘤𑘥𑘦𑘧𑘨𑘩𑘪𑘫𑘬𑘭𑘮𑘯𑘰𑘱𑘲𑘳𑘴𑘵𑘶𑘷𑘸𑘹𑘺𑘻𑘼𑘽𑘾𑘿𑙀𑙁𑙂𑙃𑙄𑙅𑙆𑙇𑙈𑙉𑙊𑙋𑙌𑙍𑙎𑙏𑙐𑙑𑙒𑙓𑙔𑙕𑙖𑙗𑙘𑙙𑙚𑙛𑙜𑙝𑙞𑙟𑙠𑙡𑙢𑙣𑙤𑙥𑙦𑙧𑙨𑙩𑙪𑙫𑙬𑙭𑙮𑙯𑙰𑙱𑙲𑙳𑙴𑙵𑙶𑙷𑙸𑙹𑙺𑙻𑙼𑙽𑙾𑙿𑚀𑚁𑚂𑚃𑚄𑚅𑚆𑚇𑚈𑚉𑚊𑚋𑚌𑚍𑚎𑚏𑚐𑚑𑚒𑚓𑚔𑚕𑚖𑚗𑚘𑚙𑚚𑚛𑚜𑚝𑚞𑚟𑚠𑚡𑚢𑚣𑚤𑚥𑚦𑚧𑚨𑚩𑚪𑚫𑚬𑚭𑚮𑚯𑚰𑚱𑚲𑚳𑚴𑚵𑚷𑚶𑚸𑚹𑚺𑚻𑚼𑚽𑚾𑚿𑛀𑛁𑛂𑛃𑛄𑛅𑛆𑛇𑛈𑛉𑛊𑛋𑛌𑛍𑛎𑛏𑛐𑛑𑛒𑛓𑛔𑛕𑛖𑛗𑛘𑛙𑛚𑛛𑛜𑛝𑛞𑛟𑛠𑛡𑛢𑛣𑛤𑛥𑛦𑛧𑛨𑛩𑛪𑛫𑛬𑛭𑛮𑛯𑛰𑛱𑛲𑛳𑛴𑛵𑛶𑛷𑛸𑛹𑛺𑛻𑛼𑛽𑛾𑛿𑜀𑜁𑜂𑜃𑜄𑜅𑜆𑜇𑜈𑜉𑜊𑜋𑜌𑜍𑜎𑜏𑜐𑜑𑜒𑜓𑜔𑜕𑜖𑜗𑜘𑜙𑜚𑜛𑜜𑜝𑜞𑜟𑜠𑜡𑜢𑜣𑜤𑜥𑜦𑜧𑜨𑜩𑜪𑜫𑜬𑜭𑜮𑜯𑜰𑜱𑜲𑜳𑜴𑜵𑜶𑜷𑜸𑜹𑜺𑜻𑜼𑜽𑜾𑜿𑝀𑝁𑝂𑝃𑝄𑝅𑝆𑝇𑝈𑝉𑝊𑝋𑝌𑝍𑝎𑝏𑝐𑝑𑝒𑝓𑝔𑝕𑝖𑝗𑝘𑝙𑝚𑝛𑝜𑝝𑝞𑝟𑝠𑝡𑝢𑝣𑝤𑝥𑝦𑝧𑝨𑝩𑝪𑝫𑝬𑝭𑝮𑝯𑝰𑝱𑝲𑝳𑝴𑝵𑝶𑝷𑝸𑝹𑝺𑝻𑝼𑝽𑝾𑝿𑞀𑞁𑞂𑞃𑞄𑞅𑞆𑞇𑞈𑞉𑞊𑞋𑞌𑞍𑞎𑞏𑞐𑞑𑞒𑞓𑞔𑞕𑞖𑞗𑞘𑞙𑞚𑞛𑞜𑞝𑞞𑞟𑞠𑞡𑞢𑞣𑞤𑞥𑞦𑞧𑞨𑞩𑞪𑞫𑞬𑞭𑞮𑞯𑞰𑞱𑞲𑞳𑞴𑞵𑞶𑞷𑞸𑞹𑞺𑞻𑞼𑞽𑞾𑞿𑟀𑟁𑟂𑟃𑟄𑟅𑟆𑟇𑟈𑟉𑟊𑟋𑟌𑟍𑟎𑟏𑟐𑟑𑟒𑟓𑟔𑟕𑟖𑟗𑟘𑟙𑟚𑟛𑟜𑟝𑟞𑟟𑟠𑟡𑟢𑟣𑟤𑟥𑟦𑟧𑟨𑟩𑟪𑟫𑟬𑟭𑟮𑟯𑟰𑟱𑟲𑟳𑟴𑟵𑟶𑟷𑟸𑟹𑟺𑟻𑟼𑟽𑟾𑟿𑠀𑠁𑠂𑠃𑠄𑠅𑠆𑠇𑠈𑠉𑠊𑠋𑠌𑠍𑠎𑠏𑠐𑠑𑠒𑠓𑠔𑠕𑠖𑠗𑠘𑠙𑠚𑠛𑠜𑠝𑠞𑠟𑠠𑠡𑠢𑠣𑠤𑠥𑠦𑠧𑠨𑠩𑠪𑠫𑠬𑠭𑠮𑠯𑠰𑠱𑠲𑠳𑠴𑠵𑠶𑠷𑠸𑠺𑠹𑠻𑠼𑠽𑠾𑠿𑡀𑡁𑡂𑡃𑡄𑡅𑡆𑡇𑡈𑡉𑡊𑡋𑡌𑡍𑡎𑡏𑡐𑡑𑡒𑡓𑡔𑡕𑡖𑡗𑡘𑡙𑡚𑡛𑡜𑡝𑡞𑡟𑡠𑡡𑡢𑡣𑡤𑡥𑡦𑡧𑡨𑡩𑡪𑡫𑡬𑡭𑡮𑡯𑡰𑡱𑡲𑡳𑡴𑡵𑡶𑡷𑡸𑡹𑡺𑡻𑡼𑡽𑡾𑡿𑢀𑢁𑢂𑢃𑢄𑢅𑢆𑢇𑢈𑢉𑢊𑢋𑢌𑢍𑢎𑢏𑢐𑢑𑢒𑢓𑢔𑢕𑢖𑢗𑢘𑢙𑢚𑢛𑢜𑢝𑢞𑢟𑢠𑢡𑢢𑢣𑢤𑢥𑢦𑢧𑢨𑢩𑢪𑢫𑢬𑢭𑢮𑢯𑢰𑢱𑢲𑢳𑢴𑢵𑢶𑢷𑢸𑢹𑢺𑢻𑢼𑢽𑢾𑢿𑣀𑣁𑣂𑣃𑣄𑣅𑣆𑣇𑣈𑣉𑣊𑣋𑣌𑣍𑣎𑣏𑣐𑣑𑣒𑣓𑣔𑣕𑣖𑣗𑣘𑣙𑣚𑣛𑣜𑣝𑣞𑣟𑣠𑣡𑣢𑣣𑣤𑣥𑣦𑣧𑣨𑣩𑣪𑣫𑣬𑣭𑣮𑣯𑣰𑣱𑣲𑣳𑣴𑣵𑣶𑣷𑣸𑣹𑣺𑣻𑣼𑣽𑣾𑣿𑤀𑤁𑤂𑤃𑤄𑤅𑤆𑤇𑤈𑤉𑤊𑤋𑤌𑤍𑤎𑤏𑤐𑤑𑤒𑤓𑤔𑤕𑤖𑤗𑤘𑤙𑤚𑤛𑤜𑤝𑤞𑤟𑤠𑤡𑤢𑤣𑤤𑤥𑤦𑤧𑤨𑤩𑤪𑤫𑤬𑤭𑤮𑤯𑤰𑤱𑤲𑤳𑤴𑤵𑤶𑤷𑤸𑤹𑤺𑤻𑤼𑤽𑤾𑤿𑥀𑥁𑥂𑥃𑥄𑥅𑥆𑥇𑥈𑥉𑥊𑥋𑥌𑥍𑥎𑥏𑥐𑥑𑥒𑥓𑥔𑥕𑥖𑥗𑥘𑥙𑥚𑥛𑥜𑥝𑥞𑥟𑥠𑥡𑥢𑥣𑥤𑥥𑥦𑥧𑥨𑥩𑥪𑥫𑥬𑥭𑥮𑥯𑥰𑥱𑥲𑥳𑥴𑥵𑥶𑥷𑥸𑥹𑥺𑥻𑥼𑥽𑥾𑥿𑦀𑦁𑦂𑦃𑦄𑦅𑦆𑦇𑦈𑦉𑦊𑦋𑦌𑦍𑦎𑦏𑦐𑦑𑦒𑦓𑦔𑦕𑦖𑦗𑦘𑦙𑦚𑦛𑦜𑦝𑦞𑦟𑦠𑦡𑦢𑦣𑦤𑦥𑦦𑦧𑦨𑦩𑦪𑦫𑦬𑦭𑦮𑦯𑦰𑦱𑦲𑦳𑦴𑦵𑦶𑦷𑦸𑦹𑦺𑦻𑦼𑦽𑦾𑦿𑧀𑧁𑧂𑧃𑧄𑧅𑧆𑧇𑧈𑧉𑧊𑧋𑧌𑧍𑧎𑧏𑧐𑧑𑧒𑧓𑧔𑧕𑧖𑧗𑧘𑧙𑧚𑧛𑧜𑧝𑧞𑧟𑧠𑧡𑧢𑧣𑧤𑧥𑧦𑧧𑧨𑧩𑧪𑧫𑧬𑧭𑧮𑧯𑧰𑧱𑧲𑧳𑧴𑧵𑧶𑧷𑧸𑧹𑧺𑧻𑧼𑧽𑧾𑧿𑨀𑨁𑨂𑨃𑨄𑨅𑨆𑨇𑨈𑨉𑨊𑨋𑨌𑨍𑨎𑨏𑨐𑨑𑨒𑨓𑨔𑨕𑨖𑨗𑨘𑨙𑨚𑨛𑨜𑨝𑨞𑨟𑨠𑨡𑨢𑨣𑨤𑨥𑨦𑨧𑨨𑨩𑨪𑨫𑨬𑨭𑨮𑨯𑨰𑨱𑨲𑨳𑨴𑨵𑨶𑨷𑨸𑨹𑨺𑨻𑨼𑨽𑨾𑨿𑩀𑩁𑩂𑩃𑩄𑩅𑩆𑩇𑩈𑩉𑩊𑩋𑩌𑩍𑩎𑩏𑩐𑩑𑩒𑩓𑩔𑩕𑩖𑩗𑩘𑩙𑩚𑩛𑩜𑩝𑩞𑩟𑩠𑩡𑩢𑩣𑩤𑩥𑩦𑩧𑩨𑩩𑩪𑩫𑩬𑩭𑩮𑩯𑩰𑩱𑩲𑩳𑩴𑩵𑩶𑩷𑩸𑩹𑩺𑩻𑩼𑩽𑩾𑩿𑪀𑪁𑪂𑪃𑪄𑪅𑪆𑪇𑪈𑪉𑪊𑪋𑪌𑪍𑪎𑪏𑪐𑪑𑪒𑪓𑪔𑪕𑪖𑪗𑪘𑪙𑪚𑪛𑪜𑪝𑪞𑪟𑪠𑪡𑪢𑪣𑪤𑪥𑪦𑪧𑪨𑪩𑪪𑪫𑪬𑪭𑪮𑪯𑪰𑪱𑪲𑪳𑪴𑪵𑪶𑪷𑪸𑪹𑪺𑪻𑪼𑪽𑪾𑪿𑫀𑫁𑫂𑫃𑫄𑫅𑫆𑫇𑫈𑫉𑫊𑫋𑫌𑫍𑫎𑫏𑫐𑫑𑫒𑫓𑫔𑫕𑫖𑫗𑫘𑫙𑫚𑫛𑫜𑫝𑫞𑫟𑫠𑫡𑫢𑫣𑫤𑫥𑫦𑫧𑫨𑫩𑫪𑫫𑫬𑫭𑫮𑫯𑫰𑫱𑫲𑫳𑫴𑫵𑫶𑫷𑫸𑫹𑫺𑫻𑫼𑫽𑫾𑫿𑬀𑬁𑬂𑬃𑬄𑬅𑬆𑬇𑬈𑬉𑬊𑬋𑬌𑬍𑬎𑬏𑬐𑬑𑬒𑬓𑬔𑬕𑬖𑬗𑬘𑬙𑬚𑬛𑬜𑬝𑬞𑬟𑬠𑬡𑬢𑬣𑬤𑬥𑬦𑬧𑬨𑬩𑬪𑬫𑬬𑬭𑬮𑬯𑬰𑬱𑬲𑬳𑬴𑬵𑬶𑬷𑬸𑬹𑬺𑬻𑬼𑬽𑬾𑬿𑭀𑭁𑭂𑭃𑭄𑭅𑭆𑭇𑭈𑭉𑭊𑭋𑭌𑭍𑭎𑭏𑭐𑭑𑭒𑭓𑭔𑭕𑭖𑭗𑭘𑭙𑭚𑭛𑭜𑭝𑭞𑭟𑭠𑭡𑭢𑭣𑭤𑭥𑭦𑭧𑭨𑭩𑭪𑭫𑭬𑭭𑭮𑭯𑭰𑭱𑭲𑭳𑭴𑭵𑭶𑭷𑭸𑭹𑭺𑭻𑭼𑭽𑭾𑭿𑮀𑮁𑮂𑮃𑮄𑮅𑮆𑮇𑮈𑮉𑮊𑮋𑮌𑮍𑮎𑮏𑮐𑮑𑮒𑮓𑮔𑮕𑮖𑮗𑮘𑮙𑮚𑮛𑮜𑮝𑮞𑮟𑮠𑮡𑮢𑮣𑮤𑮥𑮦𑮧𑮨𑮩𑮪𑮫𑮬𑮭