# TyIPA Manual tyipa 0.1.0

Write phonetic transcriptions using the IPA.



### **Contents**

1	Introduction	2
2	Quick guide	2
	2.1 Importing TyIPA	2
	2.2 Inserting IPA symbols	2
	2.3 Adding diacritics to symbols	2
	2.4 Direct IPA input via ipa.text()	3
	2.5 Using ipa.text() with a content-block (Experimental!)	4
	2.6 Choosing a font	4
3	List of available IPA symbols	4
	3.1 Lower-case Latin-based	5
	3.2 Small-capital Latin-based	8
	3.3 Greek-based	9
	3.4 Ligatures, digraphs and others	. 10
	3.5 Suprasegmentals	. 11
	3.6 Brackets	
	3.7 Deprecated ligatures	. 11
	3.8 Aliases	. 12
4	List of available IPA diacritics	. 13
	4.1 Phonation	
	4.2 Place Of Articulation	
	4.3 Quality	. 14
	4.4 Quantity	. 14
	4.5 Release	
	4.6 Segmentation	. 15
	4.7 Syllabicity	. 15
	4.8 Tone	. 15
5	License	. 15
	Problems & suggestions	
Α	Extended example: The North Wind and the Sun	. 17

### 1 Introduction

TyIPA is a module for working with the International Phonetic Alphabet (the IPA) in Typst, in a typsty style. It provides access to a library of IPA symbols via an interface highly similar to Typst's std.sym interface, combined with accenting functions covering the large variety of accents needed for IPA transcriptions. Lastly, to facilitate the ease of coding transcriptions in a Typst document, TyIPA provides a conversion function that provides direct access to IPA symbols and accents, similar to how std.sym etc. can be accessed directly in math mode.

TyIPA relies fully on Unicode and on fonts implementing the IPA-specific parts of UTF-8 in a compliant way. Unlike for example TIPA for LaTeX, TyIPA does not attempt to draw, modify or encode its own IPA characters to plug any gaps or fix problems with fonts.

### 2 Quick guide

### 2.1 Importing TyIPA

To start using **TyIPA**, import it in your Typst project:

```
#import "@preview/tyipa:0.1.0" as ipa
The IPA symbol for a voiceless velar
nasal is
#highlight(
   ipa.diac.voiceless-above(
      ipa.sym.n.engma
   )
).
```

The IPA symbol for a voiceless velar nasal is <mark>ŋ̊.</mark>

Note: You should always import TyIPA at the module level as shown above (rather than e.g. #import "@preview/tyipa:0.1.0":\*) because this avoids name collisions that would mean that TyIPA shadows items from the standard library. This manual assumes that you've imported the whole module and aliased it to ipa as illustrated above.

TyIPA provides three principal facilities:

- ipa.sym: A module providing comprehensive and systematic access to the symbols of the IPA.
- **ipa.diac**: A module providing a comprehensive set of functions to attach the various combining diacritics of the IPA to one or more symbols.
- **ipa.text**: A function that allows convenient access to the IPA symbols and diacritic functions from within text strings.

### 2.2 Inserting IPA symbols

To insert single IPA symbols, use the **#ipa.sym**-submodule provided by **TyIPA**. The symbols are named systematically in a way that should be familiar to most phoneticians, though note particularly the choise to use raised as a descriptor for superscript items (e.g. ipa.sym.y.turned.raised corresponds to the symbol commonly known as "Superscript turned lower-case y", viz. A).

Generally the order is the inverse of how you would name a symbol (i.e. each successive name component narrows down the selection and/or indicates a layer of modification).

#### Examples:

- #ipa.sym.r: r Lower-case r.
- #ipa.sym.r.turned: <a href="https://www.r.turned">u- Turned lower-case r.</a>
- #ipa.sym.r.turned.tail.right: 1 Right-tail turned lower-case r.

For a comprehensive list of symbols provided by TyIPA, see Section 3.

### 2.3 Adding diacritics to symbols

For combining diacritics (aka accents), TyIPA provides the **#ipa.diac**-submodule. The submodule contains numerous functions which take a symbol or string as an argument and add augment its input with the diacritic. The diacritic functions are named after the modification they signify according to the IPA, e.g. the acute accent of is encoded by ipa.diac.high() because it signifies a high level tone.

Some diacritics (e.g. the ring-diacritic for voice-lessness) can be placed either above or below the symbol they modify. In this case, there are two diacritic functions named ...-above() and ...-below() respectively, and there is an alias without the -above/-below which maps to whatever is the default. For example, ipa.diac.voiceless-above("x") yields x, ipa.diac.voiceless-below("x") yields x, and ipa.diac.voiceless("x") yields x, - the same as

the -below-variant, because that is the "default" for the voiceless diacritic.

#### Examples:

- #ipa.diac.high(ipa.sym.epsilon): ξ Lowercase epsilon with acute accent/high level tone.
- #ipa.diac.extra-high(ipa.sym.epsilon): 
   Lower-case epsilon with double-acute accent/extra high level tone.
- #ipa.diac.voiceless(ipa.sym.n): n Lower-case n with ring below/voiceless diacritic.
- #ipa.diac.voiceless-above(ipa.sym.engma): ŋ
   Lower-case engma with ring above/voiceless diacritic above.

You can also provide a longer string to the diacritic functions, in which case each character of the string will be combined with the diacritic, e.g. ipa.diac.syllabic("hello")  $\Rightarrow$  hello.

A notable exception to the above general pattern is the diacritic function ipa.diac.tied(), which always expects a string of length exactly 2, since the tie-bar is meant to show that two symbols represent a single segment (e.g. an affricate or a double articulation).

#### Examples:

- #ipa.diac.tied(ipa.sym.t + ipa.sym.esh): tf-Tied symbols lower-case t and lower-case esh.
- #ipa.diac.tied("gb"): gb Tied symbols lower-case g and lower-case b.
- #ipa.diac.tied-below("ts"): ts Tied symbols lower-case t and lower-case s.

Diacritics can, in principle, be further combined and "stacked", though it is worth paying attention to how well your chosen font handles such combinations of diacritics, as not all of them manage this equally well.

```
Though improbable,
#highlight(
  ipa.diac.aspirated(
    ipa.diac.falling-rising(
        ipa.diac.voiceless(
            ipa.diac.retracted(
                ipa.sym.o.open
        )
      )
    )
  )
  represents a falling-rising voiceless
aspirated retracted open-mid rounded
back vowel.
```

Though improbable, <sup>5h</sup> represents a falling-rising voiceless aspirated retracted open-mid rounded back vowel.

A comprehensive list of the diacritic functions provided by TyIPA, see Section 4.

### 2.4 Direct IPA input via ipa.text()

Most often, several IPA symbols and/or diacritics are needed at a time, e.g. to transcribe a word or a short passage. It would be somewhat cumbersome to have to enter this as an extensive series of fully-qualified ipa.sym.{...} and ipa.diac. {...} calls. So, similar to how Typst provides direct unqualified calls to the builtin sym.{...} symbols inside math mode, TyIPA provides the ipa.text(...) function which allows unqualified direct access to the IPA symbols and diacritics.

Say we want to transcribe the French word *bonjour* 'good day'. With fully qualified symbol and diacritic calls we could do this as follows:

```
\[#ipa.sym.b#ipa.diac.nasalized(
    ipa.sym.o.open
)#ipa.sym.syllable-
break#ipa.sym.ezh#ipa.sym.u#ipa.diac.extra-
short(
    ipa.sym.schwa
)#ipa.sym.R.inverted\]
```

The above is horrendously verbose, isn't it? So let's try the same with #ipa.text(...) instead.

```
#ipa.text(

"b nasalized(o.open) syllable-break "

+ "ezh u extra-short(schwa) R.inverted",

delim: "["
)

[bã.ʒuðʁ]
```

That's a whole lot simpler. Also note how ipa.text(...) takes an optional argument delim of type str which automatically adds the desired brackets around the transcription.

There are several options for delim:

delim:	Example output
"/"	/hεˈləʊ/
"//"	//hεˈləʊ//

delim:	Example output
"["	[hɛˈləʊ]
"[["	[hɛˈləʊ]
"("	(hεˈləʊ)
"(("	((hεˈləʊ))
"<"	⟨hεˈləʊ⟩
"<<"	《hεˈləʊ》

For a longer example of a transcribed passage of *The Sun and the North Wind* using the ipa.text(...) function, see Appendix A.

# 2.5 Using ipa.text() with a content-block (Experimental!)

As an experimental feature, you can also use ipa.text(...) with an argument of type content. For example:

```
#ipa.text(delim: "[")[
   stress-mark s e I f . t i
   ~ stress-mark.secondary I z
   ~ I m stress-mark aspirated(p)
   long(o.open) . t syllabic(n)
   no-release(t)
]

['seif.ti IZ IM'pho..tnt]
```

This might often be more convenient to type than using a string, however there are some potential pitfalls and caveats:

- Whereas you can just type a double space (" ")
  to get a space in the output if passing a string
  as input, you have to hard code spaces with ~ in
  content mode, because Typst will already squash
  whitespace characters together, so they cannot
  be preserved.
- If you write several paragraphs, each of them will essentially be treated as a separate call to ipa.text(), which means that if you assign a delimiter, each paragraph will show the selected brackets.
- The transliteration mechanism will target *anything* that is text within the passed content, so e.g. the bullets of a list might receive unintentional bracketing.
- You'll have to escape characters that you'd normally have to escape in content text, e.g. you have to write \/ to get the forward slash / iff it is the first character on a line, whereas in a string "/" would always be fine.

However, while passing content has its limitations and pitfalls, it also has the advantage of allowing further formatting directly within a transcription, for example imagine we wanted to highlight "suffers" and "treigloffobia" in a partial transcription of 
He said that she suffers from treigloffobia
.
With a content-block, we can easily do this:

```
He said that

#ipa.text[

\/esh i length-mark ~

_s wedge . f schwa z_ ~

f r.turned wedge m ~

*t r e I . g l o.open .

f long(o) . b i . j a*\/
].

He said that /Si: sa.faz faam trei.glo.fo:.bi.ja/.
```

### 2.6 Choosing a font

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aeque doleamus animo, cum corpore dolemus, fieri.

Here are a couple of fonts you might consider trying out:

- Doulos SIL<sup>1</sup>
- Charis<sup>1</sup>
- Gentium<sup>1</sup>
- Andika
- Noto (both Serif and Sans variants)
- Brill (free for non-commercial use only)

There's also a brief but rather handy comparison of a number of font's IPA capabilities on Christopher Bergmann's blog at isoglosse.de<sup>1</sup>.

The font used in this manual is Gentium.

### 3 List of available IPA symbols

The following is a comprehensive list of the IPA symbols (and a few extra symbols, namely brackets) made available by TyIPA.

Each symbol shows to the left the symbol itself, here in the font "Gentium", with the dashed lines showing the baseline and cap-height, and the dotted lines showing the descender- and ascenderheights of the font.

Next to each symbol is shown:

- The symbol's descriptive name in boldface (what a phonetician might call the symbol, which is not usually what the Unicode standard calls it).
- The symbols canonical name in TyIPA, which can be either used as the fully-qualified #ipa.sym.{NAME} anywhere or as just {NAME} inside a #ipa.text("...") expression. For example, if the name is given as schwa, you can use #ipa.sym.schwa or #ipa.text("schwa") to encode a.
- The symbol's escape code, which is the symbol's Unicode codepoint surrounded by  $\setminus u\{\ldots\}$ .
- A note on the symbol's use (if any). For example, whether the symbol is obsolete, deprecated, has a non-standard use, or an alternative name. Note that this does not give aliases, for which see Section 3.8.

### 3.1 Lower-case Latin-based



Lower-case a Name: a Escape: \u{61}



Raised lower-case a Name: a.raised Escape: \u{1d43}



Turned lower-case a Name: a.turned



Superscript turned lower-case a Name: a.turned.raised



Escape: \u{1d44}



Lower-case b Name: h Escape: \u{62}



Hook-top lower-case b Name: b.hook-top Escape: \u{253}



Superscript lower-case b Name: b.hook-top Escape: \u{1d47}



Lower-case c Name: C Escape: \u{63}



Lower-case c-cedilla Name: c.cedilla Escape: \u{e7}



Hook-top lower-case c Name: c.hook-top Escape: \u{188}



Superscript lower-case c Name: c.raised Escape: \u{1d9c}



Stretched lower-case c

Name: b.hook-top Escape: \u{297} Note: Obsolete



Curly-tail lower-case c Name: c.tail.curly Escape: \u{255}



Superscript curly-tail lower-case c

Name: c.tail.curly.raised Escape: \u{1d9d}



Lower-case d Name: d Escape: \u{64}



Superscript lower-case d

Name: d.raised Escape: \u{1d48}



Right-tail lower-case d Name: d.tail.right Escape:  $\u{256}$ 

e

Lower-case e Name: e Escape: \u{65}



Superscript lower-case e

Name: e.raised Escape: \u{1d49}



Reversed lower-case e

Name: e.reversed Escape: \u{258}



Schwa

Name: schwa Escape: \u{259} Note: aka turned lower-case e



Schwa with hook

Name: schwa.hook Escape: \u{25a}



Superscript schwa Name: schwa.raised

Escape: \u{1d4a}



Lower-case f Escape: \u{66}



Superscript lower-case f Name: f.raised

Escape: \u{1da0}



Lower-case g

Name: g Escape: \11{261} Note: Always single-storey g



Hook-top lower-case g Name: g.hook-top

Escape: \u{260} Note: Always single-storey g



Raised lower-case g

Name: g.raised Escape: \u{1da2} Note: Always single-storey g



Lower-case h Name: h

Escape: \u{68}



Barred lower-case h

Name: h.barred Escape: \u{127}



#### Superscript barred lower-case h

Name: h.barred.raised Escape: \u{10795}



#### Hengma

Name: sym.h.engma Escape: \u{a727}



#### Hook-top hengma

Name: sym.h.engma.hook-top Escape: \u{267}



#### Superscript hook-top hengma

Name: h.engma.hook-top.raised Escape: \u{10797}



#### Hook-top lower-case h

Name: sym.h.hook-top Escape:  $\u{266}$ 



#### Superscript hook-top lower-case h

Name: h.hook-top.raised Escape: \u{2b1}



#### Superscript lower-case h

Name: h.raised Escape: \u{2b0}



#### Turned lower-case h

Name: h.turned Escape: \u{265}



#### Fish-hook turned lower-case h

Name: h.turned.fish-hook Escape: \u{2ae}



#### Right-tail fish-hook turned lower-case h

Name: h.turned.fish-hook.tail.right Escape: \u{2af}



#### Superscript turned lower-case h

Name: h.turned.raised Escape: \u{1da3}



#### Lower-case i

Name: i Escape: \u{69}



Barred lower-case i Name: i.barred Escape: \u{268}



### Superscript barred lower-case i

Name: i.barred.raised Escape:  $\u{1da4}$ 



#### Superscript lower-case i

Name: i.raised Escape: \u{2071}



#### Lower-case j

Name: j Escape: \u{6a}



#### Barred dotless lower-case j

Name: j.dotless.barred Escape: \u{25f}



#### Hook-top barred dotless lower-case j

Name: j.dotless.barred.hook-top Escape: \u{284}



### Superscript hook-top barred dotless lower-case j

Name: j.dotless.barred.hook-top.raised Escape: \u{10798}



#### Superscript lower-case j

Name: j

Escape: \u{2b2}



#### Curly-tail lower-case i

Name: j.tail.curly Escape:  $\{u\{29d\}$ 



#### Superscript curly-tail lower-case j

Name: j.tail.curly.raised

Escape: \u{1da8}



#### Lower-case k

Name: k Escape: \u{6b}



#### Hook-top lower-case k

Name: k.hook-top Escape: \u{199} Note: Obsolete



#### Superscript lower-case k

Escape: \u{1d4f}



#### Superscript turned lower-case $\boldsymbol{k}$

Name: k Escape: \u{29e}



#### Note: Obsolete Lower-case l

Name: 1 Escape: \u{6c}



#### Belted lower-case l

Name: l.belted Escape: \u{26c}



#### Superscript belted lower-case l

Name: l.belted.raised Escape: \u{1079b}



#### Superscript lower-case l

Name: l.raised Escape: \u{2e1}



### Right-tail lower-case l

Name: l.tail.right Escape: \u{26d}



#### Superscript right-tail lower-case l

Name: l.tail.right.raised

Escape: \u{1da9}



#### Lower-case l with tilde

Name: l.tilde Escape: \u{26b}



#### Superscript lower-case l with tilde1

Name: l.tilde.raised Escape: \u{ab5e}



### Lower-case m

Name: m Escape: \u{6d}



#### Mengma

Name: m.engma Escape: \u{271}



### Superscript mengma

Name: m.engma.raised Escape: \u{1dac}



#### Superscript lower-case m

Name: m.raised Escape: \u{1d50}

<sup>&</sup>lt;sup>1</sup>Apparently some fonts (e.g. Times New Roman) have misimplemented superscript lower-case l with tilde as showing a double-tilde; the Unicode codepoint is correct.



Turned lower-case m

Name: m.turned Escape: \u{26f}



Superscript turned lower-case m

Name: m.turned.raised Escape: \u{1dac}



Right-leg turned lower-case m

Name: m.turned.right-leg

Escape: \u{270}



Superscript right-leg turned lower-case m

Name: m.turned.right-leg.raised

Escape: \u{1dad}



Lower-case n

Name: n Escape: \u{6e}



Engma

Name: n.engma Escape: \u{14b}



Superscript engma

Name: n.engma.raised Escape: \u{1d51}



Right-tail lower-case n

Name: n.tail.right Escape:  $\u{273}$ 



Superscript right-tail lower-case n

Name: n.tail.right.raised Escape: \u{1daf}



Left-tail lower-case n

Name: n.tail.left Escape: \u{272}



Superscript left-tail lower-case n

Name: n.tail.left.raised

Escape: \u{1dae}



Lower-case o

Name: 0 Escape: \u{6f}



Barred lower-case o

Name: o.barred Escape: \u{275}



Superscript barred lower-case o

Name: o.barred.raised Escape: \u{1db1}



Open lower-case o

Name: o.open Escape: \u{254}



Superscript open lower-case o

Name: o.open.raised Escape: \u{1d53}



Superscript lower-case o

Name: o.raised Escape: \u{1d52}



Slashed lower-case o

Name: o.slashed Escape: \u{f8}

Ø-

Superscript slashed lower-case o

Name: o.slashed.raised Escape: \u{107a2}

p

Lower-case p

Name: p

Escape: \u{70}



Hook-top lower-case p

Name: p.hook-top Escape: \u{1a5} Note: Obsolete



Superscript lower-case p

Name: p.raised Escape: \u{1d56}



Lower-case q

Name: q Escape: \u{71}



Hook-top lower-case q

Name: q.hook-top Escape: \u{2a0} Note: Obsolete



Superscript hook-top lower-case q

Name: q.hook-top.raised Escape: \u{1078d} Note: Obsolete



Superscript lower-case q

Name: q.raised Escape: \u{107a5}



Lower-case r

Name: r Escape: \u{72}



Fish-hook r

Name: r.fish-hook Escape: \u{27e}



Reversed fish-hook r Name: r.fish-hook.reversed

Escape:  $\{u\{27f\}$ Note: Non-standard, sinology use



Long-leg lower-case r

Name: r.long-leg Escape: \u{27c} Note: Obsolete



Turned long-leg lower-case r Name: r.long-leg.turned

Escape: \u{27a}



Superscript lower-case r

Name: r.raised Escape: \u{2b3}



Right-tail lower-case r

Name: r.tail.right Escape:  $\u{27d}$ 



Superscript right-tail lower-case r

Name: r.tail.right.raised Escape: \u{107a9}



Turned lower-case r

Name: r.turned Escape: \u{279}



Superscript turned lower-case r

Name: r.turned.raised Escape: \u{2b4}



Right-tail turned lower-case r

Name: r.turned.tail.right Escape: \u{27b}



Superscript right-tail turned lower-case r

Name: r.turned.tail.right.raised Escape: \u{2b5}



Lower-case s

Name: S Escape:  $\setminus u{73}$ 



#### Superscript lower-case s

Name: s.raised Escape: \u{2e2}



#### Right-tail lower-case s

Name: s.tail.right Escape: \u{282}



#### Superscript right-tail lower-case s

Name: s.tail.right Escape: \u{1db3}



#### Lower-case t

Name: t Escape: \u{74}



#### Hook-top lower-case t

Name: t.hook-top
Escape: \u{1ad}
Note: Obsolete



#### Superscript lower-case t

Name: t.raised Escape: \u{1d57}



#### Right-tail lower-case t

Name: t.tail.right Escape: \u{288}



#### Superscript right-tail lower-case t

Name: t.tail.right.raised

Escape: \u{107af}



#### Turned lower-case t

Name: t.turned Escape: \u{287} Note: Obsolete



#### Lower-case u

Name: u Escape: \u{75}



#### Barred lower-case u

Name: u.barred Escape: \u{289}



#### Superscript barred lower-case u

Name: u.barred.raised Escape: \u{1db6}



### Superscript lower-case u

Name: u.raised Escape: \u{1d58}



### Lower-case v

Name: v Escape: \u{76}



## Cursive lower-case v

Name: v.cursive Escape: \u{28b}



#### Superscript cursive lower-case v

Name: v.raised Escape: \u{1db9}



#### Hook-top lower-case v

Name: v.hook-top Escape: \u{2c71}



#### Superscript hook-top lower-case v

Name: v.hook-top.raised Escape: \u{107b0}



## Superscript lower-case v $_{\text{Name: }}v.\texttt{raised}$

Escape: \u{1d5b}



#### Turned lower-case v

Name: v.turned Escape:  $\u\{28c\}$ 



#### Superscript turned lower-case v

Name: v.turned.raised Escape: \u{1dba}



#### Lower-case w

Name: w Escape: \u{77}



### Superscript lower-case w

Name: w.raised
Escape: \u{2h7}



#### Turned lower-case w

Name: w.turned Escape: \u{28d}



#### Superscript turned lower-case w

Name: w.turned.raised
Escape: \u{ab69}



#### Lower-case x

Name: x Escape: \u{78}



#### Superscript lower-case x

Name: x.raised
Escape: \u{2e3}



#### Lower-case y

Name: y
Escape: \u{79}



#### Superscript lower-case y

Name: y.raised Escape: \u{2b8}



#### Turned lower-case y

Name: y.turned Escape: \u{28e}



#### Superscript turned lower-case y

Name: y.turned.raised Escape: \u{107a0}



#### Lower-case z

Name: z Escape: \u{7a}



#### Superscript lower-case z

Name: z.raised Escape: \u{2b8}



#### Right-tail lower-case z

Name: z.tail.right Escape: \u{290}



#### Superscript right-tail lower-case z

Name: z.tail.right.raised Escape: \u{1dbc}



#### Curly-tail lower-case z

Name: z.tail.curly Escape: \u{291}



### Superscript curly-tail lower-case ${\bf z}$

Name: z.tail.curly.raised Escape: \u{1dbd}

### 3.2 Small-capital Latin-based



### Small-capital B

Name: B Escape: \u{299}



#### Superscript small-capital B

Name: B.raised Escape: \u{10784}



#### Small-capital G

Name: G Escape: \u{262}



#### Hook-top small-capital G

Name: G.hook-top Escape: \u{29b}



#### Superscript hook-top small-capital G

Name: G.hook-top.raised Escape: \u{10794}

---G

#### Superscript small-capital G

Name: G.raised
Escape: \u{10792}



### Small-capital H

Name: H Escape: \u{29c}



#### Superscript small-capital H

Name: H.raised
Escape: \u{10796}



#### Small-capital I

Name: I Escape: \u{26a}



#### Superscript small-capital I

Name: I.raised
Escape: \u{1da6}



#### Small-capital Y

Name: Y Escape: \u{28f}



#### Superscript small-capital Y

Name: Y.raised
Escape: \u{107b2}



#### Small-capital L

Name: L Escape: \u{29f}



#### Superscript small-capital L

Name: L.raised
Escape: \u{1dab}



#### Small-capital N

Name: N Escape: \u{274}



### Superscript small-capital N

Name: N.raised Escape: \u{1db0}



#### Small-capital R

Name: R

Escape: \u{280}



#### Inverted small-capital R

Name: R.inverted
Escape: \u{281}



#### Superscript inverted small-capital R

Name: R.inverted.raised Escape: \u{2b6}



#### $Superscript\ small-capital\ R$

Name: R.raised
Escape: \u{107aa}

#### 3.3 Greek-based



#### Lower-case alpha

Name: alpha Escape: \u{251}



#### Superscript lower-case alpha

Name: alpha.raised Escape: \u{1d45}



#### Turned lower-case alpha

Name: alpha.turned Escape: \u{252}



#### Superscript turned lower-case alpha

Name: alpha.turned.raised
Escape: \u{1d9b}

iscape: \u[1]



#### Lower-case beta

Name: beta Escape: \u{3b2}



#### Superscript lower-case beta

Name: beta.raised
Escape: \u{1d5d}



#### Lower-case gamma

Name: gamma
Escape: \u{263}



#### Superscript lower-case gamma

Name: gamma.raised
Escape: \u{2e0}



#### Lowe-case epislon

Name: epsilon Escape: \u{25b}



#### Superscript lower-case epsilon

Name: epsilon.raised Escape: \u{1d4b}



#### Reversed lower-case epsilon

Name: epsilon.reversed Escape: \u{25c}

.... Escape: \u(250



#### Closed reversed lower-case epsilon

Name: epsilon.reversed.closed Escape: \u{25e}

St Na

#### Superscript reversed lower-case epsilon

Name: epsilon.reversed.closed.raised Escape: \u{1078f}



#### Reversed lower-case epsilon with hook

Name: epsilon.reversed.hook

Escape: \u{25d}



### ${\bf Superscript\ reversed\ lower-case\ epsilon}$

Name: epsilon.reversed.raised
Escape: \u{1d9f}

θ

#### Lower-case theta

Name: theta
Escape: \u{3b8}



#### Superscript lower-case theta

Name: theta.raised

Escape: \u{1dbf}



### Lower-case iota Name: iota

Escape: \u{269}
Note: Obsolete



#### Lower-case upsilon

Name: upsilon
Escape: \u{28a}





#### Superscript lower-case upsilon

Name: upsilon.raised Escape: \u{1db7}



#### Lower-case phi

Name: phi
Escape: \u{278}



#### Superscript lower-case phi

Name: phi.raised Escape: \u{1db2}



#### Lower-case chi

Name: chi
Escape: \u{3c7}



#### Superscript lower-case chi

Name: chi.raised Escape: \u{1d61}



#### Closed lower-case omega

Name: omega.closed Escape: \u{277}



#### Superscript lower-case omega

Name: omega.closed.raised Escape: \u{107a4}

### 3.4 Ligatures, digraphs and others



### Lower-case a-e ligature

Name: ae Escape: \u{e6}



#### Superscript lower-case a-e ligature

Name: ae.raised Escape: \u{10783}



#### Bull's eye

Name: bulls-eye Escape: \u{298}



#### Superscript bull's eye

Name: bulls-eye.raised Escape: \u{107b5}



#### Lower-case esh

Name: esh Escape: \u{283}



#### Superscript lower-case esh

Name: esh.raised Escape: \u{1db4}



### Reversed lower-case esh

Name: esh.reversed Escape: \u{285}



### Curly-tail lower-case esh

Name: esh.tail.curly Escape: \u{286} Note: Obsolete



### Lower-case eth

Name: eth
Escape: \u{f0}



#### Superscript lower-case eth

Name: eth.raised Escape: \u{1d9e}



#### Lower-case ezh

Name: esh Escape: \u{292}



#### Superscript lower-case ezh

Name: ezh.raised Escape: \u{1dbe}



#### Curly-tail lower-case ezh

Name: ezh.raised.tail.curly Escape: \u{293} Note: Obsolete



#### **Exclamation mark**

Name: exclamation-mark Escape:  $\u\{1c3\}$ 



#### Superscript exclamation-mark

Name: exclamation-mark.raised Escape: \u{a71d}



#### Glottal stop

Name: glottal-stop Escape: \u{294}



#### Superscript glottal stop

Name: glottal-stop.raised Escape: \u{2c0}



#### Reversed glottal stop

Name: glottal-stop.reversed Escape: \u{295}



#### Barred reversed glottal stop

Name: glottal-stop.reversed.barred



#### Superscript barred reversed glottal stop

Name: glottal-stop.reversed.barred.raised Escape: \u{107b4}



#### Superscript reversed glottal stop

Name: glottal-stop.reversed.raised
Escape: \u{204}



#### Barred glottal stop

Name: glottal-stop.barred Escape: \u{2a1}



#### Superscript barred glottal stop

Name: glottal-stop.barred.raised Escape: \u{107b3}



#### Inverted glottal stop

Name: glottal-stop.inverted Escape: \u{296} Note: Obsolete



#### Lower-case l-ezh ligature

Name: lezh
Escape: \u{26e}

Locape. (u[20e]



#### Superscript lower-case l-ezh ligature

Name: lezh.raised Escape: \u{1079e}



#### Lower-case o-e ligature

Name: oe Escape: \u{153}



#### Superscript lower-case o-e ligature

Name: oe.raised Escape: \u{a7f9}



### Small-capital o-e ligature

Name: 0E Escape: \u{276}



### Superscript small-capital o-e ligature

Name: OE.raised Escape: \u{107a3}



#### Pipe Name: pipe

Escape: \u{1c0}



### Doubel pipe

Name: pipe.double Escape: \u{1c1}



## Superscript double pipe Name: pipe.double.raised

Name: pipe.double.raised Escape:  $\u\{1c1\}$ 



#### Double-barred pipe

Name: pipe.double-barred Escape: \u{1c2}



#### Superscript double-barred pipe Name: pipe.double-barred.raised

Escape: \u{1c2}



### Superscript pipe

Name: pipe.raised Escape: \u{107b6}



### Ram's horn

Name: rams-horn Escape: \u{264}



#### Superscript ram's horn

Name: rams-horn.raised Escape: \u{10791}



#### Dotted circle placeholder

Name: placeholder.circle Escape: \u{25cc}



### Non-breaking space (used as a placeholder)

Name: placeholder.blank Escape: \u{a0}

### 3.5 Suprasegmentals



#### Undertie

Name: undertie Escape: \u{203f}



#### Primary stress mark

Name: stress-mark.primary Escape: \u{2c8}



#### Secondary stress mark

Name: stress-mark.secondary Escape: \u{2cc}



#### Syllable break

Name: Syllable break Escape: \u{2e}



### Long length mark

Name: length-mark.long Escape: \u{2d0}



### Half-long length mark

Name: length-mark.half-long Escape:  $\u{2d1}$ 



### Minor group mark

Name: group-mark.minor Escape: \u{7c}



### Major group mark

Name: group-mark.major Escape: \u{2016}



#### Upstep mark

Name: upstep Escape: \u{a71b}



#### Downstep mark

Name: downstep Escape: \u{a71c}



#### Global rise mark

Name: global-rise Escape:  $\u{2197}$ 



### Global fall mark

Name: global-fall Escape: \u{2198}



#### Extra-high tone-bar

Name: tone-bar.extra-high

Escape: \u{2e5}



#### High tone-bar

Name: tone-bar.high Escape: \u{2e6}



#### Mid tone-bar

Name: tone-bar.mid Escape: \u{2e7}



#### Low tone-bar

Name: tone-bar.low Escape: \11{2e8}



#### Extra-low tone-bar

Name: tone-bar.extra-low Escape: \u{2e9}

### 3.6 Brackets



#### Left angle bracket

Name: bracket.angle.left Escape: \u{27e8}



#### Right angle bracket

Name: bracket.angle.right Escape:  $u{232a}$ 



#### Left double angle bracket

Name: bracket.angle.double.left Escape: \u{27ea}



#### Right double angle bracket

Name: bracket.angle.double.right Escape: \u{27eb}



#### Left parenthesis

Name: bracket.paren.left Escape: \u{28}



#### Superscript left parenthesis

Name: bracket.paren.left.raised Escape: \u{207d}



#### Right parenthesis

Name: bracket.paren.right Escape: \u{29}



### Superscript right parenthesis

Name: bracket.paren.right.raised Escape: \u{207e}



#### Left double parenthesis

Name: bracket.paren.double.left Escape: \u{2985}



#### Right double parenthesis

Name: bracket.paren.double.right Escape: \u{2986}



#### Left square bracket

Name: bracket.square.left Escape: \u{5b}



#### Right square bracket

Name: bracket.square.right Escape: \u{5d}



#### Left double square bracket

Name: bracket.square.double.left Escape: \u{27e6}



#### Right double square bracket

Name: bracket.square.double.right Escape: \u{27e7}

### 3.7 Deprecated ligatures

The following ligatures for affricates are deprecated. It is generally recommended to use a combination of the constituent symbols, possibly with a tie-bar (see #ipa.diac.tie()) to indicate that they represent a single entity.



#### Lower-case d-ezh ligature

Name: dezh Escape: \u{2a4} Note: Deprecated



### Superscript lower-case d-ezh ligature

Name: dezh.raised Escape: \u{1078a} Note: Deprecated



### Lower-case d-z ligature

Name: dz
Escape: \u{2a3}
Note: Deprecated



#### Superscript lower-case d-z lgiature

Name: dz.raised Escape: \u{10787} Note: Deprecated



#### Lower-case d-curly-z ligature

Name: dz.curly
Escape: \u{2a5}
Note: Deprecated



#### Superscript lower-case d-curly-z ligature

Name: dz.curly.raised Escape: \u{10789} Note: Deprecated



### Name: tesh

Escape: \u{2a7}
Note: Deprecated



#### Name: tesh.raised

Escape: \u{107ae}
Note: Deprecated



### Lower-case t-s ligature

Name: ts

Escape: \u{2a6}

Note: Deprecated



#### Superscript lower-case t-s ligature

Name: ts.raised
Escape: \u{107ac}
Note: Deprecated



### Lower-case t-curly-tail-c ligature

Name: tc.tail.curly Escape: \u{2a8} Note: Deprecated



### Superscript lower-case t-curly-tail-c ligature

Name: tc.tail.curly.raised Escape: \u{107ab} Note: Deprecated

### 3.8 Aliases

Several of the symbols listed in the previous sections are also commonly known by other names (an *alias*) or should be logically referenceable by such an alias (e.g. a schwa is really a turned e). In a few cases, an alias might simply represent a common short-hand for the full symbol name (e.g. length-mark for length-mark.primary). For convenience, TyIPA includes the following aliases.

canon: alpha.raised α a.cursive.raised - a.script.raised - a.single-storey.raised canon: alpha.turned n a.cursive.turned - a.script.turned - a.single-storey.raised canon: alpha.turned.raised p - a.cursive.turned.raised - a.script.turned.raised - a.single-storey.raised Canon: c.tail.curly 6 – c.tail canon: c.tail.curly.raised G \_ c.tail.raised Canon: d.tail.right d.retroflex - d.tail Canon: schwa Э e.turned Canon: schwa.hook ď - e.turned.hook Canon: schwa.raised Э – e.turned.raised Canon: g g - g.single-storey canon: g.hook-top g.single-storey.hook-top canon: g.raised g - g.single-storey.raised Canon: h.engma h Aliases:
- hengma Canon: h.engma.hook-top – hengma.hook-top canon: h.engma.hook-top.raised ĥ Aliases:
- hengma.hook-top.raised canon: h.engma.raised h - hengma.raised Canon: h.turned.fish-hook.tail.right \_ h.turned.fish-hook.tail canon: j.tail.curly \_ j.tail canon: j.tail.curly.raised j \_ j.tail.raised Canon: l.tail.right - l.retroflex

- l.tail

```
canon: l.tail.right.raised
       - l.retroflex.raised
       - l.tail.raised
     Canon: m.engma
m
       – mengma
     canon: m.engma.raised
m
     Aliases:
- mengma.raised
     Canon: n.engma
ŋ
       – enmga
     Canon: n.engma.raised
ŋ
       - enmga.raised
     Canon: n.tail.right
\eta_{.}
       n.retroflex
       - n.tail
     canon: n.tail.right.raised
η.
       n.retroflex.raised
       n.tail.raised
     Canon: r.tail.right
       - r.retroflex
       - r.tail
     canon: r.tail.right.raised
r
       - r.retroflex.raised
       - r.tail.raised
     canon: r.turned.tail.right
       - r.turned.retroflex
       - r.turned.tail
     canon: r.turned.tail.right.raised
       - r.turned.retroflex.raised
       - r.turned.tail.raised
     Canon: s.tail.right
       s.retroflex
       - s.tail
     canon: s.tail.right.raised
ş
       - s.retroflex.raised
       s.tail.raised
     Canon: t.tail.right
       - t.retroflex
       - t.tail
     canon: t.tail.right.raised
       t.retroflex.raised
       - t.tail.raised
     Canon: upsilon
7
       - u.horseshoe
     Canon: upsilon.raised
\sigma
       u.horseshoe.raised
     Canon: v.cursive
     Aliases:
- v.script
υ
     canon: v.cursive.raised
υ
       v.script.raised
     Canon: v.turned
       – wedge
```

```
Canon: v.turned.raised
Λ
       wedge.raised
     Canon: z.tail.right
Z
       z.retroflex
       - z.tail
     canon: z.tail.right.raised
       _ z.retroflex.raised
       - z.tail.raised
     Canon: eth
ð
     Canon: placeholder.circle
\circ
       – placeholder
     canon: stress-mark.primary
     Aliases:
- stress-mark
     canon: length-mark.long
       length-mark
     canon: group-mark.major
       - group-mark
     Canon: tc.tail.curly
     Aliases:
- tc.tail
tG
     canon: tc.tail.curly.raised
tc
     Aliases:
- tc.tail.raised
```

### 4 List of available IPA diacritics

The following is a comprehensive list of the diacritics implemented by TyIPA.

Each entry shows to the left the diacritic mark itself, here in the font "Gentium" applied to a dotted-circle placeholder 'o', with the dashed lines showing the baseline and cap-height, and the dotted lines showing the descender- and ascender-heights of the font.

Next to each entry's illustration is shown:

- The diacritic's IPA name in boldface.
- The symbol's use, i.e. what the diacritic signifies when applied to a symbol.
- The symbols canonical name in TyIPA, which can be either used as the fully-qualified ipa.diac.{NAME}(...) anywhere or as just {NAME}(...) inside a ipa.text("...") expression. For example, if the name is given as nasalized(base: symbol | str), you can use either ipa.diac.nasalized(ipa.sym.schwa) or ipa.text("nasalized(schwa)") to encode 3.

- The diacritic's escape code, which is the Unicode codepoint for the diacritic surrounded by \u{...}.
- Aliases that can be used for the same diacritic,
- A note on the diacritic's use (if any). For example, whether it is obsolete or deprecated.

#### 4.1 Phonation



#### Superscript h

Use: Aspirated

Name: aspirated(base: str | symbol)

Escape: \u{2b0}



### Subscript umlaut

Use: Breathy voiced Name: breathy(base: str | symbol)

Escape: \u{324}

#### Subscript tilde

Use: Creaky voiced
Name: creaky(base: str | symbol)

Escape: \u{330}



#### Subscript wedge

Use: Voiced Name: voiced(base: str | symbol)

Escape: \u{32c}



#### Over-ring

Use: Voiceless (above)
Name: voiceless-above(base: str | symbol)

Escape: \u{30a}



#### **Under-ring**

Use: Voiceless

Name: voiceless-below(base: str | symbol)

Escape: \u{325}

Alias: voiceless(base: str | symbol)

#### 4.2 Place Of Articulation



#### Inverted subscript bridge

Use: Apical Name: apical(base: str | symbol)

Escape: \u{33a}



#### Subscript bridge

Use: Dental Name: dental(base: str | symbol)

Escape: \u{32a}



### Subscript square

Use: Laminal

Name: laminal(base: str | symbol)

Escape: \u{33b}



#### Subscript seagull

Use: Linguolabial

Name: linguolabial(base: str | symbol)

Escape: \u{33c}

### 4.3 Quality



#### Subscript plus

Use: Advanced

Name: advanced(base: str | symbol)

Escape: \u{31f}



#### Advancing sign

Use: Advanced tongue root (ATR)

Name: atr(base: str | symbol)

Escape: \u{318}



#### Umlaut

Use: Centralized

Name: centralized(base: str | symbol)

Escape: \u{308}



#### Superscript w

Use: Labialized

Name: labialized(base: str | symbol)

Escape: \u{2b7}



#### Subscript left half-ring

Use: Less rounded
Name: less-rounded(base: str | symbol)

Escape: \u{31c}



#### Lowering sign

Use: Lowered
Name: lowered(base: str | symbol)

Escape: \u{31e}



#### Over-cross

Use: Mid-centralized

Name: mid-centralized(base: str | symbol)

Escape: \u{33d}



#### Subscript right half-ring

Use: More rounded

Name: more-rounded(base: str | symbol)

Escape: \u{339}



#### Superscript tilde

Use: Nasalized

Name: nasalized(base: str | symbol)

Escape: \u{303}



#### Superscript i

Use: Palatalized

Name: palatalized(base: str | symbol)

Escape: \u{2b2}



#### Superscript reversed glottal stop

Use: Pharyngealized

Name: pharyngealized(base: str | symbol)

Escape: \u{2e4}



#### Raising sign

Use: Raised
Name: raised(base: str | symbol)

Escape: \u{31d}



#### Under-bar

Use: Retracted
Name: retracted(base: str | symbol)

Escape: \u{320}



### Right hook

Use: Rhoticity
Name: rhotic(base: str | symbol)

Escape: \u{2de}



### Retroflex hook

Use: Diacritic retroflexion

Name: retroflex(base: str | symbol)

Escape: \u{322}



#### Retracting sign

Use: Retracted tongue root (RTR) Name: rtr(base: str | symbol)

Escape: \u{319}



### Superscript gamma

Use: Velarized

Name: velarized(base: str | symbol) Escape: \u{2e0}

### Superimposed tilde

Use: Velarized or pharyngealized
Name: velopharyngealized(base: str | symbol)

Escape: \u{334}

Alias: dark(base: str | symbol)

## 4.4 Quantity



Use: Extra-short

Name: extra-short(base: str | symbol)

Escape: \u{306}



#### Half-length mark

Use: Half-long

Name: half-long(base: str | symbol)

Escape: \u{2d1}



#### Length mark

Use: Long
Name: long(base: str | symbol)

Escape: \u{2d0}

#### 4.5 Release



#### **Apostrophe**

Use: Ejective
Name: ejective(base: str | symbol) Escape: \u{2bc}

#### Superscript l

Use: Lateral release

Name: lateral-release(base: str | symbol) Escape: \u{2e1}

 $\bar{\bigcirc}^{n}$ 

#### Superscript n

Use: Nasal release

Name: nasal-release(base: str | symbol)

Escape: \u{207f}



#### Corner Use: No audible release

Name: no-release(base: str | symbol)

Escape: \u{31a}

### 4.6 Segmentation



#### Top tie bar

Use: Tie bar (above)

Name: tied-above(base: str)

Escape: \u{361}

Alias: tied(base: str)

Note: Expects an argument of length exactly 2.



#### Bottom tie bar

Use: Tie bar (below)

Name: tied-below(base: str)

Escape: \u{35c}

Note: Expects an argument of length exactly 2.

### 4.7 Syllabicity



#### Subscript arch

Use: Non-syllabic

Name: non-syllabic(base: str | symbol)

Escape: \u{32f}



#### Syllabicity mark

Use: Syllabic

Name: syllabic(base: str | symbol)

Escape: \u{329}

#### 4.8 Tone



#### Double acute accent (over)

Use: Extra high level tone

Name: extra-high(base: str | symbol)

Escape: \u{30b}



#### Double grave accent (over)

Use: Extra low level tone

Name: extra-low(base: str | symbol)

Escape: \u{30f}



#### Circumflex

Use: Falling contour tone
Name: falling(base: str | symbol)

Escape: \u{302}



#### Acute + grave + acute accent

Use: Falling-rising contour tone

Name: falling-rising(base: str | symbol)

Escape: \u{1dc9}



#### Acute accent (over)

Use: High level tone

Name: high(base: str | symbol)

Escape: \u{301}

#### Acute accent + macron

Use: High-mid falling contour tone

Name: high-mid-falling(base: str | symbol)

Escape: \u{1dc7}

#### Macron + acute accent

Use: High rising contour tone

Name: high-rising(base: str | symbol)

Escape: \u{1dc4}



#### Grave accent (over)

Use: Low level tone
Name: low(base: str | symbol)

Escape: \u{300}



#### Grave accent + macron

Use: Low rising contour tone

Name: low-rising(base: str | symbol)

Escape: \u{1dc5}



#### Macron

Use: Mid level tone

Name: mid(base: str | symbol)

Escape: \u{304}



#### Macron + grave accent

Use: Mid-low falling contour tone

Name: mid-low-falling(base: str | symbol)

Escape: \u{1dc6}



#### Wedge, hacek

Use: Rising contour tone

Name: rising(base: str | symbol)

Escape: \u{30c}



### Grave + acute + grave accent

Use: Rising-falling contour tone

Name: rising-falling(base: str | symbol)

Escape: \u{1dc8}

### 5 License

TyIPA is © 2025 by Florian Breit.

TyIPA, including its documentation and this manual, is licensed under the MIT License.

The License text is as follows:

Copyright 2025 Florian Breit

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/ or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT

SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The source code is available from https://github.com/thatfloflo/tyipa<sup>1</sup>.

### 6 Problems & suggestions

**TyIPA** started out as a little experiment to learn more about Typst. There are probably a few bugs I haven't spotted, and there will be things that could've been done better or can be improved.

So whether you have found a bug, or you have a suggestion for improving TyIPA (including this manual!), or you have some other question or feedback regarding TyIPA, please post these to the issue tracker on the official GitHub repository at https://github.com/thatfloflo/tyipa<sup>1</sup>. Thank you.

### A Extended example: The North Wind and the Sun

Broad American English transcription of *The North Wind and the Sun* passage from the Handbook of the International Phonetic Association (IPA, 1994, p. 44).

#ipa.text("eth schwa stress-mark n o r.turned theta stress-mark.secondary w I n d
schwa n (theta) schwa stress-mark s v.turned n w schwa.hook d I s stress-mark p j u
t I n.engma stress-mark w I tied(t esh) w schwa z eth schwa stress-mark s t r.turned
alpha n.engma g schwa.hook, w epsilon n schwa stress-mark t r.turned ae v schwa l
schwa.hook stress-mark.secondary k e m schwa stress-mark l alpha n.engma stress-mark
r.turned ae p t I n schwa stress-mark w o r.turned m stress-mark k l o k.")

#ipa.text("eth e schwa stress-mark g r.turned i d eth schwa t eth schwa stress-mark
w wedge n h u stress-mark f schwa.hook s t s schwa k stress-mark s i d schwa d I n

w wedge n h u stress-mark f schwa.hook s t s schwa k stress-mark s i d schwa d I n stress-mark m e k I engma eth schwa stress-mark r.turned ae v schwa l schwa.hook stress-mark t e k I z stress-mark k l o k stress-mark.secondary alpha f esh upsilon d b i k schwa n stress-mark s I d schwa.hook d stress-mark s t r.turned alpha engma g schwa.hook eth schwa n eth I stress-mark schwa eth schwa.hook .")

#ipa.text("eth epsilon n eth schwa stress-mark n o r.turned theta stressmark.secondary w I n d stress-mark b l u schwa z i stress-mark k upsilon d , b
schwa t eth schwa stress-mark m o r.turned h i stress-mark b l u eth schwa stressmark m o r.turned stress-mark k l o s l i d I d eth schwa stress-mark t r.turned v l
schwa.hook stress-mark f o l d h I z stress-mark k l o k schwa stress-mark r.turned
a upsilon n d I m ;")

#ipa.text("stress-mark.secondary ae n schwa t stress-mark l ae s t eth schwa stressmark n o r.turned eth stress-mark.secondary w I n d stress-mark.secondary g e v
stress-mark wedge p eth i schwa stress-mark t epsilon m p t . stress-mark eth epsilon
n eth schwa stress-mark wedge n stress-mark esh a I n d stress-mark.secondary a
upsilon t stress-mark w o r.turned m l i, schwa n d I stress-mark m i d i schwa t l i
eth schwa stress-mark t r.turned ae v l schwa.hook stress-mark t upsilon k stressmark.secondary alpha f I z stress-mark k l o k.")

#ipa.text("schwa n stress-mark s o eth schwa stress-mark n o r.turned theta stressmark.secondary w I n d w schwa z schwa stress-mark b l a I ezh t I k schwa n stressmark f epsilon s eth schwa t eth schwa stress-mark s wedge n w schwa z eth schwa
stress-mark s t r.turned alpha engma g schwa.hook schwa v eth schwa stress-mark t
u.")

ðə 'noaθ ˌwɪnd ən (θ)ə 'sʌn wə dɪs'pjutɪŋ 'wɪt͡ʃ wəz ðə 'stɹaŋgə, wɛn ə 'tɹævələ ˌkem ə'laŋ 'ɹæpt ɪn ə 'woam 'klok.

ðe əˈgɹid ðət ðə ˈwʌn hu ˈfəst səkˈsidəd ɪn ˈmekɪŋ ðə ˈɹævələ ˈtek ɪz ˈklok ˌaf ʃʊd bi kənˈsɪdəd ˈstɹaŋgə ðən ði ˈəðə.

ðen ðə 'nouθ 'wind 'blu əz i 'kvd, bət ðə 'mou hi 'blu ðə 'mou 'klosli did ðə 'tuvlə 'fold hiz 'klok ə'uavnd im; 'æn ət 'læst ðə 'nouð 'wind 'gev 'np ði ə'tempt. 'ðen ðə 'nn 'ʃaind 'avt 'woumli, ənd i'midiətli ðə 'tuævlə 'tvk 'af iz 'klok.

ən 'so ðə 'noaθ ˌwɪnd wəz ə'blaɪʒ tı kən'fɛs ðət ðə 'sʌnwəz ðə 'staaŋgə əv ðə 'tu.

tyipa 0.1.0 2025-07-05 17