Typst IPA

While the features are somewhat organized into separate files, you can import everything via the `ipa.typ` entry file.

```
#import("ipa.typ"): *
```

Conversion

Sample word: Russian ⟨привет⟩ [prʲɪvʲet]

To convert X-SAMPA, Praat, Branner, and SIL notation to the IPA, use the following functions:

```
#xsampa("pr_jIv_jet")
#praat("pr\\^j\\icv\\^jet")
#branner("prj^Ivj^et")
#sil("prj^i=vj^et")
```

Output:

– prʲɪvʲet
– prʲɪvʲet
– prʲɪvʲet
– prʲɪvʲet

You can also reverse the conversion, from the IPA to X-SAMPA, Praat, Branner, and SIL notation:

```
#xsampa("prʲɪvʲet", reverse: true)
#praat("prʲɪvʲet", reverse: true)
#branner("prʲɪvʲet", reverse: true)
#sil("prʲɪvʲet", reverse: true)
```

Output:

– pr_jIv_jet
– pr\^j\icv\^jet
– prj^Ivj^et
– prj^i=vj^et

If you are using a font which is not fully IPA-compatible, you can force the usage of Linux Libertine:

```
#xsampa("pr_jIv_jet", override-font: true)
```

Brackets and braces

You can mark your text as [phonetic] , /phonemic/ , ⟨orthographic⟩ , and {prosodic} :

```
#phonetic("prʲɪ'vʲet") /* or */ #phnt("prʲɪ'vʲet")
#phonemic("prɪvet") /* or */ #phnm("prɪvet")
#orthographic("привет") /* or */ #orth("привет")
#prosodic("I actually don't know what this is") /* or */ #prsd("...")
```

Output:

– [prʲɪ'vʲet]
– /prɪvet/
– ⟨привет⟩
– {I actually don't know what this is}

Unit Tests

X-SAMPA

Ii:Uu:O:eE:@3:Q{VA: → ɪiːʊuːɔːeɛːəɜːɒæʌɑː

passed → ɪiːʊuːɔːeɛːəɜːɒæʌɑː

Ii:Uu:O:eE:@3:Q{VA: ← ɪiːʊuːɔːeɛːəɜːɒæʌɑː

passed → Ii:Uu:O:eE:@3:Q{VA:

mnN → mnŋ

passed → mnŋ

mnN ← mnŋ

passed → mnN

pttSkbddZg → pttʃkbddʒg

passed → pttʃkbddʒg

pttSkbddZg ← pttʃkbddʒg

passed → pttSkbddZg

fTsSxvDzZh → fθsʃxvðzʒh

passed → fθsʃxvðzʒh

fTsSxvDzZh ← fθsʃxvðzʒh

passed → fTsSxvDzZh

lrjw → lrjw

passed → lrjw

lrjw ← lrjw

passed → lrjw

i1ueoa → iɨueoa

passed → iɨueoa

i1ueoa ← iɨueoa

passed → i1ueoa

mm_jnn_j → mmʲnnʲ

passed → mmʲnnʲ

mm_jnn_j ← **mmʲnnʲ**

passed → mm_jnn_j

pp_jtt_jkk_jbb_jdd_jgg_j → **ppʲttʲkkʲbbʲddʲggʲ**

passed → ppʲttʲkkʲbbʲddʲggʲ

pp_jtt_jkk_jbb_jdd_jgg_j ← **ppʲttʲkkʲbbʲddʲggʲ**

passed → pp_jtt_jkk_jbb_jdd_jgg_j

tsts_jts** → **tstsʲtɕ

passed → tstsʲtɕ

tsts_jts** ← **tstsʲtɕ

passed → tsts_jts\\

ff_jss_js`s\\:xx_jvv_jzz_jz`z\\:G → **ffʲssʲʂɕːxxʲvvʲzzʲʐʐːɣ**

passed → ffʲssʲʂɕːxxʲvvʲzzʲʐʐːɣ

ff_jss_js`s\\:xx_jvv_jzz_jz`z\\:G ← **ffʲssʲʂɕːxxʲvvʲzzʲʐʐːɣ**

passed → ff_jss_js`s\\:xx_jvv_jzz_jz`z\\:G

5l_jj → **ɬlʲj**

passed → ɬlʲj

5l_jj ← **ɬlʲj**

passed → 5l_jj

r_jr → **rʲr**

passed → rʲr

r_jr ← **rʲr**

passed → r_jr

iui:u:aa:awaj → **iuiːuːaaːawaj**

passed → iuiːuːaaːawaj

iui:u:aa:awaj ← **iuiːuːaaːawaj**

passed → iuiːuːaaːawaj

ptt_?\\kq?bdd_?\\dZg → **pttˤkqʔbddˤdʒg**

passed → pttˤkqʔbddˤdʒg

ptt_?\kq?bdd_?\dZg ← pttˤkq?bddˤdʒg

passed → ptt_?\kq?bdd_?\dZg

fTss_?\SxXX\hvDzD_?\z_?\GR?\ → fθssˤʃxχħhvðzðˤzˤɣʁʕ

passed → fθssˤʃxχħhvðzðˤzˤɣʁʕ

fTss_?\SxXX\hvDzD_?\z_?\GR?\ ← fθssˤʃxχħhvðzðˤzˤɣʁʕ

passed → fTss_?\SxXX\hvDzD_?\z_?\GR?\

mn → mn

passed → mn

mn ← mn

passed → mn

r → r

passed → r

r ← r

passed → r

l5jw → lɬjw

passed → lɬjw

l5jw ← lɬjw

passed → l5jw

Praat

\ici\:f\hsu\:f\ct\:fe\ef\:f\sw → ɹiːʊuːɔːeɛːə

passed → ɹiːʊuːɔːeɛːə

\ici\:f\hsu\:f\ct\:fe\ef\:f\sw ← ɹiːʊuːɔːeɛːə

passed → \ici\:f\hsu\:f\ct\:fe\ef\:f\sw

\er\:f\ab\ae\vt\as\:f → ɜːɒæʌɑː

passed → ɜːɒæʌɑː

\er\:f\ab\ae\vt\as\:f ← ɜːɒæʌɑː

passed → \er\:f\ab\ae\vt\as\:f

mn\ng → mnŋ

passed → mnŋ

mn\ng ← mnŋ

passed → mn\ng

ptt\shkbdd\zh\gs → pttʃkbddʒg

passed → pttʃkbddʒg

ptt\shkbdd\zh\gs ← pttʃkbddʒg

passed → ptt\shkbdd\zh\gs

f\tfs\shxv\dhz\zhh → fθsʃxvðzʒh

passed → fθsʃxvðzʒh

f\tfs\shxv\dhz\zhh ← fθsʃxvðzʒh

passed → f\tfs\shxv\dhz\zhh

lrjw → lrjw

passed → lrjw

lrjw ← lrjw

passed → lrjw

i\i-ueoa → iɨueoa

passed → iɨueoa

i\i-ueoa ← iiueoa

passed → i\i-ueoa

mm\^jnn\^j → mmʲnnʲ

passed → mmʲnnʲ

mm\^jnn\^j ← mmʲnnʲ

passed → mm\^jnn\^j

pp\^jtt\^jkk\^jbb\^jdd\^j\gs\gs\^j → ppʲttʲkkʲbbʲddʲggʲ

passed → ppʲttʲkkʲbbʲddʲggʲ

pp\^jtt\^jkk\^jbb\^jdd\^j\gs\gs\^j ← ppʲttʲkkʲbbʲddʲggʲ

passed → pp\^jtt\^jkk\^jbb\^jdd\^j\gs\gs\^j

tsts\^jt\cc → tstsʲtɕ

passed → tstsʲtɕ

tsts\^jt\cc ← tstsʲtɕ

passed → tsts\^jt\cc

ff\^jss\^j\s.\cc\:fxx\^jvv\^j → ffʲssʲʂɕːxxʲvvʲ

passed → ffʲssʲʂɕːxxʲvvʲ

ff\^jss\^j\s.\cc\:fxx\^jvv\^j ← ffʲssʲʂɕːxxʲvvʲ

passed → ff\^jss\^j\s.\cc\:fxx\^jvv\^j

zz\^j\z.\zc\:f\gf → zzʲʐʑːɣ

passed → zzʲʐʑːɣ

zz\^j\z.\zc\:f\gf ← zzʲʐʑːɣ

passed → zz\^j\z.\zc\:f\gf

\l~l\^jj → ɬlʲj

passed → ɬlʲj

\l~l\^jj ← ɬlʲj

passed → \l~l\^jj

r\^jr → rʲr

passed → rʲr

r\\^jr ← rʲr

passed → r\\^jr

iui\\:fu\\:faa\\:fawaj → iuiːuːaaːawaj

passed → iuiːuːaaːawaj

iui\\:fu\\:faa\\:fawaj ← iuiːuːaaːawaj

passed → iui\\:fu\\:faa\\:fawaj

ptt\\^9kq\\?gbdd\\^9d\\zh\\gs → pttˤkqʔbddˤdʒg

passed → pttˤkqʔbddˤdʒg

ptt\\^9kq\\?gbdd\\^9d\\zh\\gs ← pttˤkqʔbddˤdʒg

passed → ptt\\^9kq\\?gbdd\\^9d\\zh\\gs

f\\tfss\\^9\\shx\\cf\\h-hv\\dh → fθssˤʃxχħhvð

passed → fθssˤʃxχħhvð

f\\tfss\\^9\\shx\\cf\\h-hv\\dh ← fθssˤʃxχħhvð

passed → f\\tfss\\^9\\shx\\cf\\h-hv\\dh

z\\dh\\^9z\\^9\\gf\\ri\\9e → zðˤzˤɣʁʕ

passed → zðˤzˤɣʁʕ

z\\dh\\^9z\\^9\\gf\\ri\\9e ← zðˤzˤɣʁʕ

passed → z\\dh\\^9z\\^9\\gf\\ri\\9e

mn → mn

passed → mn

mn ← mn

passed → mn

r → r

passed → r

r ← r

passed → r

l\\l~jw → lłjw

passed → lłjw

l\l~jw ← lłjw

passed → l\l~jw

Branner

Ii:Uu:c&:eE:@E&:a"&ae)v&a": → ɪiːʊuːɔːeɛːəɜːɒæʌɑː

passed → ɪiːʊuːɔːeɛːəɜːɒæʌɑː

Ii:Uu:c&:eE:@E&:a"&ae)v&a": ← ɪiːʊuːɔːeɛːəɜːɒæʌɑː

passed → Ii:Uu:c&:eE:@E&:a"&ae)v&a":

mnng) → mnŋ

passed → mnŋ

mnng) ← mnŋ

passed → mnng)

pttSkbdd3"g → pttʃkbddʒg

passed → pttʃkbddʒg

pttSkbdd3"g ← pttʃkbddʒg

passed → pttSkbdd3"g

fO-sSxvd-z3"h → fθsʃxvðzʒh

passed → fθsʃxvðzʒh

fO-sSxvd-z3"h ← fθsʃxvðzʒh

passed → fO-sSxvd-z3"h

lrjw → lrjw

passed → lrjw

lrjw ← lrjw

passed → lrjw

ii-ueoa → iɨueoa

passed → iɨueoa

ii-ueoa ← iɨueoa

passed → ii-ueoa

mmj^nnj^ → mmʲnnʲ

passed → mmʲnnʲ

mmj^nnj^ ← mmʲnnʲ

passed → mmj^nnj^

ppj^ttj^kkj^bbj^ddj^ggj^ → ppʲttʲkkʲbbʲddʲggʲ

passed → ppʲttʲkkʲbbʲddʲggʲ

ppj^ttj^kkj^bbj^ddj^ggj^ ← ppʲttʲkkʲbbʲddʲggʲ

passed → ppj^ttj^kkj^bbj^ddj^ggj^

tstsj^tci) → tstsʲtɕ

passed → tstsʲtɕ

tstsj^tci) ← tstsʲtɕ

passed → tstsj^tci)

ffj^ssj^sr)ci):xxj^vvj^zzj^zr)zi):g" → ffʲssʲʂɕ:xxʲvvʲzzʲʐʑ:ɣ

passed → ffʲssʲʂɕ:xxʲvvʲzzʲʐʑ:ɣ

ffj^ssj^sr)ci):xxj^vvj^zzj^zr)zi):g" ← ffʲssʲʂɕ:xxʲvvʲzzʲʐʑ:ɣ

passed → ffj^ssj^sr)ci):xxj^vvj^zzj^zr)zi):g"

l~)lj^j → ɬlʲj

passed → ɬlʲj

l~)lj^j ← ɬlʲj

passed → l~)lj^j

rj^r → rʲr

passed → rʲr

rj^r ← rʲr

passed → rj^r

iui:u:aa:awaj → iui:u:aa:awaj

passed → iui:u:aa:awaj

iui:u:aa:awaj ← iui:u:aa:awaj

passed → iui:u:aa:awaj

ptt&g^kq?bdd&g^d3"g → pttˤkq?bddˤdʒg

passed → pttˤkq?bddˤdʒg

ptt&g^kq?bdd&g^d3"g ← **pttˤkq?bddˤdʒg**

passed → ptt&g^kq?bdd&g^d3"g

fO-ss&g^SxXh-hvd-zd-&g^z&g^g"R%?& → **fθssˤʃxχħhvðzðˤzˤɣʁʕ**

passed → fθssˤʃxχħhvðzðˤzˤɣʁʕ

fO-ss&g^SxXh-hvd-zd-&g^z&g^g"R%?& ← **fθssˤʃxχħhvðzðˤzˤɣʁʕ**

passed → fO-ss&g^SxXh-hvd-zd-&g^z&g^g"R%?&

mn → **mn**

passed → mn

mn ← **mn**

passed → mn

r → **r**

passed → r

r ← **r**

passed → r

ll~)jw → **lɬjw**

passed → lɬjw

ll~)jw ← **lɬjw**

passed → ll~)jw

SIL

i=i:u<u:o<:ee<:e=e>:o=a<u>a=: → ɪiːʊuːɔːeɛːəɜːɒæʌɑː

passed → ɪiːʊuːɔːeɛːəɜːɒæʌɑː

i=i:u<u:o<:ee<:e=e>:o=a<u>a=: ← ɪiːʊuːɔːeɛːəɜːɒæʌɑː

passed → i=i:u<u:o<:ee<:e=e>:o=a<u>a=:

mnn> → mnŋ

passed → mnŋ

mnn> ← mnŋ

passed → mnn>

ptts=kbddz=g< → pttʃkbddʒg

passed → pttʃkbddʒg

ptts=kbddz=g< ← pttʃkbddʒg

passed → ptts=kbddz=g<

ft=ss=xvd=zz=h → fθsʃxvðzʒh

passed → fθsʃxvðzʒh

ft=ss=xvd=zz=h ← fθsʃxvðzʒh

passed → ft=ss=xvd=zz=h

lrjw → lrjw

passed → lrjw

lrjw ← lrjw

passed → lrjw

iI=ueoa → iɨueoa

passed → iɨueoa

iI=ueoa ← iɨueoa

passed → iI=ueoa

mmj^nnj^ → mmⁿjnnⁿj

passed → mmʲnnʲ

mmj^nnj^ ← mm^{j}nn^j

passed → mmj^nnj^

ppj^ttj^kkj^bbj^ddj^g<g<j^ → pp^{j}tt^{j}kk^{j}bb^{j}dd^{j}gg^j

passed → pp^{j}tt^{j}kk^{j}bb^{j}dd^{j}gg^j

ppj^ttj^kkj^bbj^ddj^g<g<j^ ← pp^{j}tt^{j}kk^{j}bb^{j}dd^{j}gg^j

passed → ppj^ttj^kkj^bbj^ddj^g<g<j^

tstsj^tc< → tsts^{j}tɕ

passed → tsts^{j}tɕ

tstsj^tc< ← tsts^{j}tɕ

passed → tstsj^tc<

ffj^ssj^s<c<:xxj^vvj^zzj^z<z>:g= → ff^{j}ss^{j}ʂɕ:xx^{j}vv^{j}zz^{j}ʐʑ:ɣ

passed → ff^{j}ss^{j}ʂɕ:xx^{j}vv^{j}zz^{j}ʐʑ:ɣ

ffj^ssj^s<c<:xxj^vvj^zzj^z<z>:g= ← ff^{j}ss^{j}ʂɕ:xx^{j}vv^{j}zz^{j}ʐʑ:ɣ

passed → ffj^ssj^s<c<:xxj^vvj^zzj^z<z>:g=

l~~lj^j → ɬl^{j}j

passed → ɬl^{j}j

l~~lj^j ← ɬl^{j}j

passed → l~~lj^j

rj^r → r^{j}r

passed → r^{j}r

rj^r ← r^{j}r

passed → rj^r

iui:u:aa:awaj → iui:u:aa:awaj

passed → iui:u:aa:awaj

iui:u:aa:awaj ← iui:u:aa:awaj

passed → iui:u:aa:awaj

ptt?<^kq?=bdd?<^dz=g< → ptt^{ˤ}kqʔbdd^{ˤ}dʒg

passed → ptt^{ˤ}kqʔbdd^{ˤ}dʒg

ptt?<^kq?=bdd?<^dz=g< ← pttˤkqʔbddˤdʒg

passed → ptt?<^kq?=bdd?<^dz=g<

ft=ss?<^s=xx=h>hvd=zd=?<^z?<^g=R>?< → fθssˤʃxχħhvðzðˤzˤɣʁʕ

passed → fθssˤʃxχħhvðzðˤzˤɣʁʕ

ft=ss?<^s=xx=h>hvd=zd=?<^z?<^g=R>?< ← fθssˤʃxχħhvðzðˤzˤɣʁʕ

passed → ft=ss?<^s=xx=h>hvd=zd=?<^z?<^g=R>?<

mn → mn

passed → mn

mn ← mn

passed → mn

r → r

passed → r

r ← r

passed → r

ll~~jw → lłjw

passed → lłjw

ll~~jw ← lłjw

passed → ll~~jw