



ReadSpeaker Phonetic Symbol Tables

Reference Guide

Version 1.8, Aug. 31, 2022

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Introductions

ReadSpeaker speechEngine, a Text-to-Speech (TTS) solution by ReadSpeaker, is a technology that converts text data into speech. ReadSpeaker speechEngine analyzes the grammatical structure of any text input and generates a very natural-sounding speech output, with natural inflections.

This document contains Symbolic Phonetic Representation is only supported in **ReadSpeaker speechEngine** and the method of expressing the phonetic representation varies with each tag's optional alphabet.

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Revision History

Date (Ver. No)	Item	Contents
2019-06 (v1.0)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Symbolic Phonetic Table Syllable Symbols Table
2019-12 (v1.1)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Argentinian Spanish language added Indian English language added Swedish table revised <p>(engine v3.12.4.0 released)</p>
2020-03 (v1.2)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Czech language added Polish language added Dutch table revised <p>(engine v3.12.5.0 released)</p>
2020-06 (v1.3)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Hindi language added Arabic language added German table revised <p>(engine v3.12.5.0 released)</p> <ul style="list-style-type: none"> Japanese table revised <p>(engine v3.12.5.0 released)</p>
2020-12 (v1.4)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Hebrew language added Hungarian language added
2021-03 (v1.5)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Belgian Dutch (Flemish) language added Finnish language added Turkish language added
2021-04 (v1.6)	<ul style="list-style-type: none"> Symbolic Phonetic Tables 	<ul style="list-style-type: none"> Danish language added Latvian language added
2022-03 (v1.7)	<ul style="list-style-type: none"> Language Contents 	<ul style="list-style-type: none"> Scottish English language added Vietnamese language added Welsh language added

Date (Ver. No)	Item	Contents
2022-08 (v1.8)	<ul style="list-style-type: none"> • Language Contents 	<ul style="list-style-type: none"> • Belgian French language added • Catalan language added • Dutch table revised (engine v3.12.9.0 released) • Irish English language added • New Zealand English language added • South Africa English language added

Arabic

Symbolic Phonetic Table

* Please note that the positions of the phoneme symbols cannot be highlighted for the language's characteristics.

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p		p	P	planet
b	0062	98	b	b	b	B	باب
t	0074	116	t		t	T	تسع
t̤				t			تسع
d	0064	100	d		d	D	دار
d̤				d			دار
k	006B	107	k	k	k	K	كبير
g	0067	103	g	g	g	G	google
f	0066	102	f	f	f	F	فيل
v	0076	118	v		v	V	VPN
s	0073	115	s	s	s	S	سعيد
z	007A	122	z	z	z	Z	زميل
ʃ	0283	643	S	S	S	SH	شمس
h	0068	104	h	h		H	هواء
ħ					h\		بَهْر
x	0078	120	x	x		X	خطاب
χ					X		خَبْر
m	006D	109	m	m	m	M	مال
n	006E	110	n	n	n	N	نور
l	006C	108	l	l	l	L	لا
r	0072	114	r	r	r	RR	رمال
ʁ					R		عَرَق
r					4		مَرَاة
ʔ	0294	660	ʔ	ʔ	ʔ	GT	أكل
θ	03B8	952	T	T	T	TH	ثلاث
ð	00F0	240	D	D	D	DH	ذعر
ʒ	0292	658	Z			ZH	جميل
dʒ				dZ			جامع
ʒ					z\		جَرَاج

Consonant							
q	0071	113	q	q	q	QT	قَلْب
ɣ	0263	611	G	G		GH	غَرَب
ʈ	026B	619	ʂ			L vel	ظَلال
lʰ				l_ʔ			اللّه
ħ	0127	295	X\	X\	X\	HH	حَم
ʕ	0295	661	ʔ\	ʔ\	ʔ\	HG	عَم
tʰ	0074 02E4	116 740	t_ʔ\	t_ʔ		T phr	طَبِيع
t̪					t_ʔ\		طَبِيع
dʰ	0064 02E4	100 740	d_ʔ\	d_ʔ		D phr	ضَرَب
d̪					d_ʔ\		ضَرَب
ðʰ	00F0 02E4	240 740	D_ʔ\	D_ʔ		DH phr	ظَلام
ð̪					D_ʔ\		ظَلام
sʰ	0073 02E4	115 740	s_ʔ\	s_ʔ		S phr	صَغِير
s̪					s_ʔ\		صَغِير
zʰ	007A 02E4	122 740	z_ʔ\			Z phr	
tʃ	02A7	679	tʂ			CH2	chair
dʒ	02A4	676	dʒ			JH2	joy
ŋ	014B	331	N		N	NG	ring
ɹ	0279	633	r\			RA	wrong

Double Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
bb	0062 0062	98 98	bb			B B	باب
b:						b:	رَبِّ
tt	0074 0074	116 116	tt			T T	تَسَع
t:						t:	حَتَّى
dd	0064 0064	100 100	dd			D D	دار
d:						d:	مَدَّ
kk	006B 006B	107 107	kk			K K	كَبِير
k:						k:	كُنَّكَ
ff	0066 0066	102 102	ff			F F	فِيل
f:						f:	فُوق
ss	0073 0073	115 115	ss			S S	سَعِيد
s:						s:	حَسَّنْ
zz	007A 007A	122 122	zz			Z Z	زَمِيل
z:						z:	هَزَّة

Double Consonant							
ff	0283 0283	643 643	SS			SH SH	شمس
f:					S:		عُشْن
hh	0068 0068	104 104	hh			H H	هواء
h:					h\:		بَهْر
xx	0078 0078	120 120	xx			X X	خطاب
X:					X:		خَبْر
mm	006D 006D	109 109	mm			M M	مال
m:					m:		أُمَّة
nn	006E 006E	110 110	nn			N N	نور
n:					n:		مَنْ
ll	006C 006C	108 108	//			L L	لا
l:					l:		كُل
rr	0072 0072	114 114	rr			RR RR	رمال
θθ	03B8 03B8	952 952	TT			TH TH	ثلاث
θ:					T:		حَتَّى
ðð	00F0 00F0	240 240	DD			DH DH	ذَكَر
ð:					D:		فَدَّ
zz	0292 0292	658 658	ZZ			ZH ZH	جميل
z:					z\:		جَرَّاح
qq	0071 0071	113 113	qq			QT QT	قلب
q:					q:		قَوْم
γγ	0263 0263	611 611	GG			GH GH	غرب
g:					g:		مَكَّ جَجَّر
ʃʃ	026B 026B	619 619	55			L vel L vel	ظلال
ʃ:					R:		عَرَق
ħħ	0127 0127	295 295	X\X\			HH HH	حلم
ħ:					X\:		عَجَّ
ʕʕ	0295 0295	661 661	?\?\			HG HG	علم
ʕ:					?\:		سَعَّر
ttʕ	0074 02E4	116 740	t_?\			T phr T phr	طابع
t:					t_?\:		طابع
ddʕ	0064 02E4	100 740	d_?\			D phr D phr	ضرب
d:					d_?\:		ضرب

Double Consonant							
ðð	00F0 02E4	240 740	D_ʔ\			DH phr DH phr	ظلام
ð:					D_ʔ:		ظلام
ss	0073 02E4	115 740	s_ʔ\			S phr S phr	صغير
s:					s_ʔ:		صغير
pp	0070 0070	112 112	pp			P P	الفلبين
ʔʔ	0294 0294	660 660	ʔʔ			GT GT	بترأس

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	يوم
jj	006A 006A	106 106	jj			J J	حي
j:					j:		حي
w	0077	119	w	w	w	W	واحد
ww	0077 0077	119 119	ww			W W	قوة
w:					w:		قوي

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a		A	حل
ɑ					A		صنير
a:	0061 02D0	97 720	a:	a:		A lng	مال
ɑ:					A:		صادق
i	0069	105	i	i	i	I	ظل
i:	0069 02D0	105 720	i:	i:	i:	I lng	عيد
u	0075	117	u	u	u	U	عمر
u:	0075 02D0	117 720	u:	u:	u:	U lng	فول
e	0065	101	e			E	بلجيكا
o	006F	111	o			O	كوكاكولا
ɪ					ɪ		أمل البند
ɪ:					ɪ:		السكربتير
ɔ					O		جورج
o:				o:			جورج
ɔ:					O:		دكتور
æ					{		أمل
e:				e:			إثنين

Vowel							
æ:					f:		باب
ɑ:	0251 02D0	593 720	A:			AA lng	far
ɪ	026A	618	I			IH	bit
ʊ	028A	650	U			UH	hook
æ	00E6	230	{			AE	cat
ɛ	025B	603	E			EH	bed
ʌ	028C	652	V			AH	cut
ə	0259	601	@			AX	about
ɒ	0252	594	Q			Q	dog
ɔ:	0254 02D0	596 720	O:			AO lng	more
ɜ:	025C 02D0	604 720	3:			ER lng	bird
ɝ	025C 032F	604 815	3_^			ER nsy	near

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	ai			AI	my
eɪ	0065 026A	101 618	ei			EI	day
ɔɪ	0254 026A	596 618	OI			OI	boy
aʊ	0061 028A	97 650	aU			AU	now
oʊ	006F 028A	111 650	oU			OU	no
ɛə	025B 0259	603 601	E@			EHX	hair
ɪə	026A 0259	618 601	I@			IYX	near
ʊə	028A 0259	650 601	U@			UWX	tour

Syllable Phonetic Table

Syllable symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%		%	S2	secondary stress
ː	02D0	720	:		:	lng	long mark
ˑ	002E	46	|	|	\$	ˑ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
	0023	35				_s	pause

Syllable symbol							
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator
						_?	Sentence terminator

Argentinian Spanish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	padre
b	0062	98	b	b	b	B	barista
t	0074	116	t	t	t	T	tomo
d	0064	100	d	d	d	D	donde
k	006B	107	k	k	k	K	casa
g	0067	103	g	g	g	G	gato
tʃ	02A7	679	tS	tS	tS	CH2	mucho
f	0066	102	f	f	f	F	fácil
β	03B2	946	B	B	B	BH	cabo
ð	00F0	240	D	D	D	DH	nada
s	0073	115	s	s	s	S	sala
z	007A	122	z	z		Z	mismo
ts					ts		pizza
x	0078	120	x	x	x	X	mujer
ç				X			jinete
h				h	h		happy pescado
ɣ	0263	611	G	G	G	GH	luego
m	006D	109	m	m	m	M	mismo
n	006E	110	n	n	n	N	nunca
ŋ	014B	331	N	N	N	NG	tango
ɲ	0272	626	J	J	J	NJ	año
l	006C	108	l	l	l	L	lejos
ʎ	028E	654	L		L	LJ	caballo
ɰ	029D	669	jj	jj		CJ	mayo
r	027E	638	4	r	4	DX	puro
ɹ				R			rabbit
r	0072	114	r	rr		RR	carro
r:					r:		carro
dʒ	02A4	676	dZ	dZ	dZ	JH2	conllevar
ʒ				Z	Z		calle

Consonant							
j	0283	643	S	S	S	SH	yerba
θ	03B8	952	T	T		TH	thing
v	0076	118	v	v		V	voice

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	pie
w	0077	119	w	w	w	W	fuego
W				W			hueso

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	valle
ɑ				A			Arkansas
e	0065	101	e	e	e	E	pero
æ				{			actress
i	0069	105	i	i	i	I	pico
ɪ				I			effect
o	006F	111	o	o	o	O	toro
u	0075	117	u	u	u	U	duro
ʌ	028C	652	V	V		AH	run
ə	0259	601	@	@		AX	about
ɜ:	025C 02D0	604 720	ɜ:			ER lng	bird
ɜ				r=			earl

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NTSAMPA	TASAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	1	primary stress
ˌ	02CC	716	%	%	%	2	secondary stress
ː	02D0	720	:	:	:		long mark
ˑ	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary
	0023	35				_	pause

Syllable Symbol		
	!	Sentence terminator
	,	Sentence terminator
	.	Sentence terminator
	?	Sentence terminator

Australian English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pen
b	0062	98	b	b	b	B	but
t	0074	116	t	t	t	T	two
d	0064	100	d	d	d	D	do
tʃ	02A7	679	tʃ	tʃ	tʃ	CH2	chair
dʒ	02A4	676	dʒ	dʒ	dʒ	JH2	joy
k	006B	107	k	k	k	K	cat
g	0067	103	g	g	g	G	get
f	0066	102	f	f	f	F	fool
v	0076	118	v	v	v	V	voice
θ	03B8	952	T	T	T	TH	think
ð	00F0	240	D	D	D	DH	this
s	0073	115	s	s	s	S	see
z	007A	122	z	z	z	Z	zoo
ʃ	0283	643	S	S	S	SH	she
ʒ	0292	658	Z	Z	Z	ZH	pleasure
h	0068	104	h	h	h	H	ham
x					x		loch
ɨ					K		Llantilio
m	006D	109	m	m	m	M	man
ɱ					m=		Wilsham
n	006E	110	n	n	n	N	no
ɳ					n=		morten
ŋ	014B	331	N	N	N	NG	ring
l	006C	108	l	l	l	L	left
ɭ					l=		turtle
ɹ	0279	633	r\			RA	wrong
ɻ					r\`		wrong
r				r			wrong
j	006A	106	j	j	j	J	yes
w	0077	119	w	w	w	W	we

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɒ	0252	594	Q	c	Q	Q	not
æ	00E6	230	{	{	{	AE	cat
e	0065	101	e			E	pet
ɛ				E	E		pet
ɪ	026A	618	I	I	I	IH	city
i	0069	105	i			I	happy
ʊ	028A	650	U	U	U	UH	put
u	0075	117	u			U	influenza
ʌ	028C	652	V	V	V	AH	run
ə	0259	601	@	@	@	AX	about

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:	A	A:	AA Ing	father
i:	0069 02D0	105 720	i:	i	i:	I Ing	see
ɔ:	0254 02D0	596 720	O:	O	O:	AO Ing	law
u:	0075 02D0	117 720	u:	u	u:	U Ing	soon
ɜ:	025C 02D0	604 720	3:	3	3:	ER Ing	bird

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aI	aI	aI	AI	rise
eɪ	0065 026A	101 618	eI	e	eI	EI	raise
ɔɪ	0254 026A	596 618	OI	OI	OI	OI	noise
aʊ	0061 028A	97 650	aU	aU	aU	AU	rouse
əʊ	0259 028A	601 650	@U	o	@U	AX UH	nose
eə	0065 0259	101 601	e@	e@		EHX	stairs
ɛə					E@		stairs
ɪə	026A 0259	618 601	I@	I@	I@	IYX	fear
ʊə	028A 0259	650 601	U@	U@	U@	UWX	cure

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition

Syllable Symbol							
.	02C8	712	'	'	'	S1	primary stress
.	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:		:	Ing	long mark
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
				*			nuclear stress
						_!	Sentence terminator
						_'	Sentence terminator
						_·	Sentence terminator
						_?	Sentence terminator

Belgian Dutch (Flemish)

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pad
b	0062	98	b	b	b	B	bad
t	0074	116	t	t	t	T	tak
d	0064	100	d	d	d	D	dak
k	006B	107	k	k	k	K	kat
g	0067	103	g	g	g	G	goal
f	0066	102	f	f	f	F	fout
s	0073	115	s	s	s	S	sap
z	007A	122	z	z	z	Z	zat
ʃ	0283	643	S	S	S	SH	sjaal
ʒ	0292	658	Z	Z	Z	ZH	bagage
x	0078	120	x	x	x	X	toch
ɣ	0263	611	G	G	G	GH	regen
h	0068	104	h	h	h	H	hand
v	0076	118	v	v	v	V	leven
ʋ	028B	651	P		P	VA	wang
tʃ				tj			potje
l	006C	108	l	l	l	L	land
r	0072	114	r	r	r	RR	rand
m	006D	109	m	m	m	M	mat
n	006E	110	n	n	n	N	nek
ŋ	014B	331	N	N	N	NG	eng
ɲ				nj	J		oranje
tʃ	02A7	679	tS			CH2	check
ts				ts			pats
dʒ	02A4	676	dZ			JH2	jog
ʔ				ʔ	ʔ		¹ geëerd
ɹ	0279	633	r\			RA	dark
θ	03B8	952	T	T		TH	thing
ð	00F0	240	D			DH	nether

1. Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.ء

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	jas
w	0077	119	w	w	w	W	windows

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ	0251	593	A	A	A	AA	bad
ɛ	025B	603	E	E	E	EH	bed
ɪ	026A	618	I	I	I	IH	vis
ɔ	0254	596	O	O	O	AO	pot
ʏ	028F	655	Y	Y		YH	hut
ə	0259	601	@	@	@	AX	de
æ	00E6	230	{			AE	happy
ʊ	028A	650	U			UH	hook
ʌ	028C	652	V		V	AH	brush
ɜ̥	025C 032F	604 815	3_^			ER nsy	near

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	naam
e	0065	101	e	e	e	E	heet
i	0069	105	i	i	i	I	diep
o	006F	111	o	o	o	O	poot
y	0079	121	y	y	y	Y	uur
u	0075	117	u	u	u	U	hoed
ø	00F8	248	2	2	2	EU	beuk
ɛ:	025B 02D0	603 720	E:	E:	E:	EH Ing	gêne
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	roze
œ:				9:			oeuvre
œ					9		oeuvre
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	guard
i:	0069 02D0	105 720	i:			I Ing	cheap
u:	0075 02D0	117 720	u:			U Ing	blue
ɜ:	025C 02D0	604 720	3:			ER Ing	bird

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0251 0303	593 771	A~	A~	A~	AA nas	chanson
ẽ	025B 0303	603 771	E~	E~	E~	EH nas	timbre
õ	0254 0303	596 771	O~	O~	O~	AO nas	lyon
œ̃					9~		un soleil
ÿ				Y~			un soleil

Diphthong							
IPA	Unicode	Decimal	SAMPA	NTSAMPA	TASAMPA	SAPI	Example
ɛi	025B 0069	603 105	Ei		Ei	EH I	fijn
ɛ ⁱ				Ei			fijn
au	0251 0075	593 117	Au		Au	AA U	kou
a ^u				Au			kou
œy	0153 0079	339 121	9y		9y	OE Y	huis
œ ^y				9y			huis
aɪ	0061 026A	97 618	ai			AI	rise
eɪ	0065 026A	101 618	ei			EI	raise
ɔɪ	0254 026A	596 618	OI			OI	noise

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
ː	02D0	720	:	:	:	lng	long mark
ˑ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	Word boundary
						_ s	pause

Syllable Symbol		
	!	sentence terminator
	,	sentence terminator
	.	sentence terminator
	?	sentence terminator

Belgian French

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	pont
b	0062	98	b	b	b	b	bon
t	0074	116	t	t	t	t	temps
d	0064	100	d	d	d	d	dans
tʃ	02A7	679	tʃ			t sh	lunch
dʒ	02A4	676	dʒ			d zh	jazz
k	006B	107	k	k	k	k	canadienne
g	0067	103	g	g	g	g	gant
f	0066	102	f	f	f	f	femme
v	0076	118	v	v	v	v	vent
s	0073	115	s	s	s	s	sans
z	007A	122	z	z	z	z	zone
ʃ	0283	643	ʃ	ʃ	ʃ	sh	champ
ʒ	0292	658	ʒ	ʒ	ʒ	zh	gens
m	006D	109	m	m	m	m	mont
n	006E	110	n	n	n	n	nom
ɲ	0272	626	ɲ	ɲ	ɲ	nj	oignon
ŋ	014B	331	ŋ	ŋ	ŋ	ng	camping
l	006C	108	l	l	l	l	long
ʁ	0281	641	ʁ	ʁ		r	rond
R						R\	rond
ʁ						ʁ	harpon
h	0068	104	h				how

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	y	pierre
ɥ	0265	613	ɥ	ɥ	ɥ	hy	juin
w	0077	119	w	w	w	w	oui

Vowel							
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Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	a	dame
e	0065	101	e	e	e	ey	ses
i	0069	105	i	i	i	iy	si
o	006F	111	o	o	o	ow	gros
u	0075	117	u	u	u	uw	doux
y	0079	121	y	y	y	uy	du
ø	00F8	248	2	2	2	eu	deux
ɑ	0251	593	A	A	A	aa	glas
ɔ	0254	596	O	O	O	oh	comme
ə	0259	601	@	@	@	ax	justement
ɛ	025B	603	E	E	E	eh	examen
œ	0153	339	9	9	9	oe	neuf

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0251 0303	593 771	A~		A~	a~	vent
õ	0254 0303	596 771	O~		O~	ow~	bon
ẽ	025B 0303	603 771	E~		E~	ey~	vin
œ̃	0153 0303	339 771	9~	9~	9~	oe~	brun
ã				a~			vent
ẽ				e~			vin
õ				o~			bon

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	1	primary stress
ˌ	02CC	716	%	%	%		secondary stress
ː	02D0	720	:	:	:		long mark
ˑ	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary

Syllable Symbol		
	-	pause
	!	Sentence terminator
	,	Sentence terminator
	.	Sentence terminator
	?	Sentence terminator

Brazilian Portuguese

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pai
b	0062	98	b	b	b	B	barco
t	0074	116	t	t	t	T	tenho
d	0064	100	d	d	d	D	doce
tʃ	02A7	679	tS	tS	tS	CH2	noite
dʒ	02A4	676	dZ	dZ	dZ	JH2	sede
k	006B	107	k	k	k	K	com
g	0067	103	g	g	g	G	grande
f	0066	102	f	f	f	F	falo
v	0076	118	v	v	v	V	verde
s	0073	115	s	s	s	S	céu
z	007A	122	z	z	z	Z	casa
ʃ	0283	643	S	S	S	SH	chapéu
ʒ	0292	658	Z	Z	Z	ZH	jóia
m	006D	109	m	m	m	M	mar
n	006E	110	n	n	n	N	nada
ɲ	0272	626	J	J	J	NJ	vinho
l	006C	108	l	l	l	L	lanche
ʎ	028E	654	L	L	L	LJ	trabalho
r	027E	638	4	r	4	DX	caro
x	0078	120	x			X	rua
ɣ				R			rua
h					h		rua
θ	03B8	952	T			TH	threw

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	pai
ɥ					j~		tem
w	0077	119	w	w	w	W	quatro
ũ					w~		mão

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	abelha
e	0065	101	e	e	e	E	treze
i	0069	105	i	i	i	I	lápiz
o	006F	111	o	o	o	O	lobo
u	0075	117	u	u	u	U	justo
ɐ	0250	592	6	6	6	AEX	duas
ə	0259	601	@			AX	birth
ɛ	025B	603	E	E	E	EH	sete
ɪ	026A	618	I	I		IH	sete
ĩ					i		sete
ɔ	0254	596	O	O	O	AO	porta,
ʊ	028A	650	U	U		UH	justo

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0061 0303	97 771	a~		a~	AN	aliança
ẽ				6~			aliança
ē	0065 0303	101 771	e~	e~	e~	EN	quarenta
ĩ	0069 0303	105 771	i~	i~	i~	I nas	quinze
õ	006F 0303	111 771	o~	o~	o~	ON	ombro
ũ	0075 0303	117 771	u~	u~	u~	U nas	corcunda

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ				%	%		secondary stress
ˑ	002E	46	|	|	\$	ˑ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator

Syllable Symbol		
	_'	Sentence terminator
	_·	Sentence terminator
	_?	Sentence terminator

Canadian French

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pont
b	0062	98	b	b	b	B	bon
t	0074	116	t	t	t	T	temps
ts	02A6	678	ts		ts	TS2	tire
d	0064	100	d	d	d	D	dans
dz	02A3	675	dz		dz	DZ2	dire
tʃ	02A7	679	tʃ			CH2	church
dʒ	02A4	676	dʒ			JH2	joy
k	006B	107	k	k	k	K	canadienne
g	0067	103	g	g	g	G	gant
f	0066	102	f	f	f	F	femme
v	0076	118	v	v	v	V	vent
θ	03B8	952	T			TH	think
ð	00F0	240	D			DH	this
s	0073	115	s	s	s	S	sans
z	007A	122	z	z	z	Z	zone
ʃ	0283	643	S	S	S	SH	champ
ʒ	0292	658	Z	Z	Z	ZH	gens
h	0068	104	h			H	greyhound
m	006D	109	m	m	m	M	mont
n	006E	110	n	n	n	N	nom
ŋ	014B	331	N	N	N	NG	camping
ɲ	0272	626	J	J	J	NJ	oignon
l	006C	108	l	l	l	L	long
ɹ	0279	633	r\			RA	rainbow
ʁ	0281	641	R	R		RH	rond
R					R\		rond
ʀ					ʀ		harpon

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example

Semi Vowel							
j	006A	106	j	j	j	J	pierre
w	0077	119	w	w	w	W	oui
ɥ	0265	613	H	H	H	WJ	juin

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	dame
e	0065	101	e	e	e	E	ses
i	0069	105	i	i	i	I	si
o	006F	111	o	o	o	O	gros
u	0075	117	u	u	u	U	doux
y	0079	121	y	y	y	Y	du
ø	00F8	248	2	2	2	EU	deux
ɑ	0251	593	A	A	A	AA	achat
ɒ	0252	594	Q			Q	not
ɔ	0254	596	O	O	O	AO	comme
ə	0259	601	@	@	@	AX	justement
ɛ	025B	603	E	E	E	EH	examen
ɪ	026A	618	I		I	IH	vite
œ	0153	339	9	9	9	OE	neuf
ʊ	028A	650	U		U	UH	loupe
ʏ	028F	655	Y		Y	YH	butte

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0061 0303	97 771	a~	a~		AN	vent
æ̃					ɸ~		vent
ẽ	0065 0303	101 771	e~	e~	e~	EN	vin
õ	006F 0303	111 771	o~	o~	o~	ON	bon
œ̃	0153 0303	339 771	9~	9~		OEN	brun
ø̃					2~		brun

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:	a:		A lng	épave
e:	0065 02D0	101 720	e:	e:		E lng	imper

Long Vowel							
i:	0069 02D0	105 720	i:	i:		I Ing	prise
o:	006F 02D0	111 720	o:	o:		O Ing	embauche
u:	0075 02D0	117 720	u:	u:		U Ing	sourd
y:	0079 02D0	121 720	y:	y:		Y Ing	juge
ø:	00F8 02D0	248 720	2:	2:		EU Ing	neutre
ɑ:	0251 02D0	593 720	A:	A:		AA Ing	pâte
ɔ:	0254 02D0	596 720	O:	O:		AO Ing	port
ɛ:	025B 02D0	603 720	E:	E:		EH Ing	salaire
œ:	0153 02D0	339 720	9:	9:		OE Ing	peur
ã:	0061 0303 02D0	97 771 720	a~:	a~:		AN Ing	branche
ê:	0065 0303 02D0	101 771 720	e~:	e~:		EN Ing	flingue
õ:	006F 0303 02D0	111 771 720	o~:	o~:		ON Ing	longue
œ̃:	0153 0303 02D0	339 771 720	9~:	9~:		OEN Ing	humble

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
ː	02D0	720	:	:		Ing	long mark
ˑ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator
						_?	Sentence terminator

Cantonese

Symbolic Phonetic Table

The table below shows Cantonese jyutping.

Part 1

		Initial									
		-	b	p	m	f	d	t	n	l	g
Final	aa	aa	baa	paa	maa	faa	daa	taa	naa	laa	gaa
	aai	aai	baai	paai	maai	faai	daai	taai	naai	laai	gaai
	aaU	aaU	baau	paau	maau	-	-	-	naau	laau	gaau
	aam	aam	-	-	-	-	daam	taam	naam	laam	gaam
	aan	aan	baan	paan	maan	faan	daan	taan	naan	laan	gaan
	aang	aang	baang	paang	maang	-	-	-	-	laang	gaang
	aap	aap	-	-	-	-	daap	taap	naap	laap	gaap
	aat	aat	baat	-	maat	faat	daat	taat	naat	laat	gaat
	aak	aak	baak	paak	maak	faak	daak	-	-	laak	gaak
	ai	ai	bai	pai	mai	fai	dai	tai	nai	lai	gai
	au	au	bau	pau	mau	fau	dau	tau	nau	lau	gau
	am	am	bam	-	-	-	dam	tam	nam	lam	gam
	an	-	ban	pan	man	fan	dan	tan	nan	-	gan
	ang	ang	bang	pang	mang	fang	dang	tang	nang	lang	gang
	ap	ap	-	-	-	-	dap	-	nap	lap	gap
	at	-	bat	pat	mat	fat	dat	-	nat	lat	gat
	ak	ak	bak	-	mak	-	dak	-	-	lak	-
	e	e	be	pe	me	fe	de	-	ne	le	ge
	ei	ei	bei	pei	mei	fei	dei	-	nei	lei	gei
	eu	-	-	-	-	-	deu	-	-	-	-
	em	-	-	-	-	-	-	-	-	lem	-
	eng	-	beng	peng	meng	-	deng	teng	-	leng	geng
	ep	-	-	-	-	-	-	-	-	-	gep
	et	-	-	pet	-	-	-	-	-	-	-
	ek	-	bek	pek	-	-	dek	tek	-	lek	-
	i	-	bi	-	mi	-	di	-	ni	li	gi
	iu	-	biu	piu	miu	-	diu	tiu	niu	liu	giu
im	-	-	-	-	-	dim	tim	nim	lim	gim	
in	-	bin	pin	min	-	din	tin	nin	lin	gin	

		Initial									
		-	b	p	m	f	d	t	n	l	g
ing	-	bing	ping	ming	-	ding	ting	ning	ling	ging	
ip	-	-	-	-	-	dip	tip	nip	lip	gip	
it	-	bit	pit	mit	-	dit	tit	-	lit	git	
ik	-	bik	pik	mik	-	dik	tik	nik	lik	gik	
o	o	bo	po	mo	fo	do	to	no	lo	go	
oi	oi	-	poi	-	-	doi	toi	noi	loi	goi	
ou	ou	bou	pou	mou	-	dou	tou	nou	lou	gou	
on	on	-	-	-	-	-	-	-	-	gon	
ong	ong	bong	pong	mong	fong	dong	tong	nong	long	gong	
ot	-	-	-	-	-	-	-	-	-	got	
ok	ok	bok	pok	mok	fok	dok	tok	nok	lok	gok	
oe	-	-	-	-	-	doe	toe	-	-	goe	
oeng	-	-	-	-	-	-	-	noeng	loeng	goeng	
oek	-	-	-	-	-	doek	-	-	loek	goek	
eoi	-	-	-	-	-	deoi	teoi	neoi	leoi	geoi	
eon	-	-	-	-	-	deon	teon	-	leon	-	
eot	-	-	-	-	-	deot	-	neot	leot	-	
u	-	-	-	-	fu	-	-	-	lu	gu	
ui	-	bui	pui	mui	fui	-	-	-	-	gui	
un	-	bun	pun	mun	fun	-	-	-	-	gun	
ung	ung	bung	pung	mung	fung	dung	tung	nung	lung	gung	
ut	-	but	put	mut	fut	-	-	-	-	-	
uk	uk	buk	puk	muk	fuk	duk	tuk	nuk	luk	guk	
yu	-	-	-	-	-	-	-	-	-	-	
yun	-	-	-	-	-	dyun	tyun	nyun	lyun	gyun	
yut	-	-	-	-	-	dyut	tyut	-	lyut	gyut	
m	m	-	-	-	-	-	-	-	-	-	
ng	ng	-	-	-	-	-	-	-	-	-	

Part 2

		Initial									
		k	ng	h	gw	kw	w	z	c	s	j
Final	aa	kaa	ngaa	haa	gwaa	kwaa	waa	zaa	caa	saa	jaa
	aai	kaai	ngaai	haai	gwaai	kwaai	waai	zaai	caai	saai	jaai
	aau	kaau	ngaau	haau	-	-	-	zaau	caau	saau	-
	aam	-	ngaam	haam	-	-	-	zaam	caam	saam	-

	Initial										
	k	ng	h	gw	kw	w	z	c	s	j	
aan	-	ngaan	haan	gwaan	-	waan	zaan	caan	saan	-	
aang	-	ngaang	haang	gwaang	kwaang	waang	zaang	caang	saang	-	
aap	-	-	haap	-	-	-	zaap	caap	saap	-	
aat	kaat	ngaat	-	gwaat	-	waat	zaat	caat	saat	-	
aak	kaak	ngaak	haak	gwaak	kwaak	waak	zaak	caak	saak	jaak	
ai	kai	ngai	hai	gwai	kwai	wai	zai	cai	sai	jai	
au	kau	ngau	hau	-	-	-	zau	cau	sau	jau	
am	kam	ngam	ham	-	-	-	zam	cam	sam	jam	
an	kan	ngan	han	gwan	kwan	wan	zan	can	san	jan	
ang	kang		hang	gwang	-	wang	zang	cang	sang	-	
ap	kap	-	hap	-	-	-	zap	cap	sap	jap	
at	kat	ngat	hat	gwat	-	wat	zat	cat	sat	jat	
ak	-	ngak	hak	-	-	-	zak	cak	sak	-	
e	ke	-	-	-	-	we	ze	ce	se	je	
ei	kei	-	hei	-	-	-	-	-	sei	-	
eu	-	-	-	-	-	-	-	-	-	-	
em	-	-	-	-	-	-	-	-	-	-	
eng	-	-	heng	-	-	-	zeng	ceng	seng	jeng	
ep	-	-	-	-	-	-	-	-	-	-	
et	-	-	-	-	-	-	-	-	-	-	
ek	kek	-	hek	-	-	-	zek	cek	sek	-	
i	-	-	-	-	-	-	zi	ci	si	ji	
iu	kiu	-	hiu	-	-	-	ziu	ciu	siu	jiu	
im	kim	-	him	-	-	-	zim	cim	sim	jim	
in	kin	-	hin	-	-	-	zin	cin	sin	jin	
ing	king	-	hing	gwing	-	wing	zing	cing	sing	jing	
ip	-	-	hip	-	-	-	zip	cip	sip	jip	
it	kit	ngit	hit	-	-	-	zit	cit	sit	jit	
ik	kik	-	hik	gwik	kwik	wik	zik	cik	sik	jik	
o	ko	ngo	ho	gwo	-	wo	zo	co	so	jo	
oi	koi	ngoi	hoi	-	-	-	zoi	coi	soi	-	
ou	-	ngou	hou	-	-	-	zou	cou	sou	-	
on	-	ngon	hon	-	-	-	-	-	-	-	
ong	kong	ngong	hong	gwong	kwong	wong	zong	cong	song	-	
ot	-	-	hot	-	-	-	-	-	-	-	

		Initial									
		k	ng	h	gw	kw	w	z	c	s	j
ok	kok	ngok	hok	gwok	kwok	wok	zok	cok	sok	-	
oe	koe	-	hoe	-	-	-	zoe	-	-	-	
oeng	koeng	-	hoeng	-	-	-	zoeng	coeng	soeng	joeng	
oek	koek	-	-	-	-	-	zoek	coek	soek	joek	
eo	keoi	-	heoi	-	-	-	zeoi	ceoi	seoi	jeoi	
eon	-	-	-	-	-	-	zeon	ceon	seon	jeon	
eot	-	-	-	-	-	-	zeot	ceot	seot	-	
u	ku	-	-	-	-	wu	-	-	-	-	
ui	kui	-	-	-	-	wui	-	-	-	-	
un	-	-	-	-	-	wun	-	-	-	-	
ung	kung	ngung	hung	-	-	-	zung	cung	sung	jung	
ut	kut	-	-	-	-	wut	-	-	-	-	
uk	kuk	-	huk	-	-	-	zuk	cuk	suk	juk	
yu	-	-	-	-	-	-	zyu	cyu	syu	jyu	
yun	kyun	-	hyun	-	-	-	zyun	cyun	syun	jyun	
yut	kyut	-	hyut	-	-	-	zyut	cyut	syut	jyut	
m	-	-	hm	-	-	-	-	-	-	-	
ng	-	-	hng	-	-	-	-	-	-	-	

The table below is a group of phonetic representations and examples of Cantonese synthesizer.

Cantonese Consonant				
IPA	Unicode	Decimal	SAMPA	Example
p	0070	112	p	paa
b	0062	98	b	baa
t	0074	116	t	tong
d	0064	100	d	daa
k	006B	107	k	kap
g	0067	103	g	gam
k^{wh}	006B 02B7 02B0	107 695 688	kw	kwaa
k^w	006B 02B7	107 695	gw	gwaa
m	006D	109	m	maa
n	006E	110	n	nei
ŋ	014B	331	N	ngaa
f	0066	102	f	faa
s	0073	115	s	saa

Cantonese Consonant				
h	0068	104	h	haa
ts^h	0074 0073 02B0	116 115 688	ts	caang
ts	0074 0073	116 115	dz	zaak
j	006A	106	j	jaa
w	0077	119	w	waak
/	006C	108	/	laang

Cantonese Vowel				
IPA	Unicode	Decimal	SAMPA	Example
a	0061	97	a	baat
ai	0061 0069	97 105	aj	daai
au	0061 0075	97 117	aw	maau
ɛi	0250 0069	592 105	6j	sai
ɛu	0250 0075	592 117	6w	sau
e	0250	592	6	jap
ɛ	025B	603	E	se
ei	0065 0069	101 105	ej	nei
ɛu	025B 0075	603 117	Ew	deu
i	0069	105	i	bi
iu	0069 0075	105 117	iw	biu
ɔ	0254	596	O	gon
ɔi	0254 0069	596 105	Oj	coi
ou	006F 0075	111 117	ow	dou
œ	0153	339	9	goek
ø	0275	629	8	seon
øy	0275 0079	629 121	8y	seoi
u	0075	117	u	gu
ui	0075 0069	117 105	uj	mui
y	0079	121	y	hyut
m̩	006D 0329	109 809	m=	m (唔)
ŋ̩	006E 0329	331 809	N=	ng (五)

English Consonant				
IPA	Unicode	Decimal	SAMPA	Example
p	0070	112	p	pen
b	0062	98	b	but
t	0074	116	t	two

English Consonant				
d	0064	100	d	do
tʃ	02A7	679	tS	chair
dʒ	02A4	676	dZ	joy
k	006B	107	k	cat
g	0067	103	g	get
f	0066	102	f	fool
v	0076	118	v	voice
θ	03B8	952	T	think
ð	00F0	240	D	this
s	0073	115	s	see
z	007A	122	z	zoo
ʃ	0283	643	S	she
ʒ	0292	658	Z	pleasure
h	0068	104	h	ham
m	006D	109	m	man
n	006E	110	n	no
ŋ	014B	331	N	ring
l	006C	108	l	left
r	0279	633	r\	wrong
j	006A	106	j	yes
w	0077	119	w	we

English Monophthong				
IPA	Unicode	Decimal	SAMPA	Example
ɒ	0252	594	Q	not
æ	00E6	230	{	cat
e	0065	101	e	pet
ɪ	026A	618	I	city
ʊ	028A	650	U	put
ʌ	028C	652	V	run
ə	0259	601	@	about
ɒ	0252	594	Q	not

English Vowel				
IPA	Unicode	Decimal	SAMPA	Example
ɑ:	0251 02D0	593 720	A:	father
i:	0069 02D0	105 720	i:	see

English Vowel				
ɔ:	0254 02D0	596 720	O:	law
u:	0075 02D0	117 720	u:	soon
ɜ:	025C 02D0	604 720	3:	bird

English Diphthong				
IPA	Unicode	Decimal	SAMPA	Example
aɪ	0061 026A	97 618	aI	rise
eɪ	0065 026A	101 618	eI	raise
ɔɪ	0254 026A	596 618	OI	noise
aʊ	0061 028A	97 650	aU	rouse
əʊ	0259 028A	601 650	@U	nose
eə	0065 0259	101 601	e@	stairs
ɪə	026A 0259	618 601	I@	fear
ʊə	028A 0259	650 601	U@	cure

Syllable Phonetic Table

Below mentioned syllable symbols could be used with phonetic representation.

Cantonese Tone Symbols				
IPA	Unicode	Decimal	SAMPA	Definition
˥	02E5 02E5	741 741	_1	Tone 1
˧	02E7 02E5	743 741	_2	Tone 2
˨	02E7 02E7	743 743	_3	Tone 3
˩	02E8 02E9	744 745	_4	Tone 4
˦	02E9 02E7	745 743	_5	Tone 5
˨˨	02E8 02E8	744 744	_6	Tone 6

English Syllable Symbols				
IPA	Unicode	Decimal	SAMPA	Definition
ˈ	02C8	712	'	primary stress
ˌ	02CC	716	%	secondary stress
ː	02D0	720	:	long mark
ˑ	002E	46	|	syllable boundary

Catalan

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	peu
b	0062	98	b	b	b	B	bola
β	03B2	946	B	B	B	BH	obert
t	0074	116	t	t	t	T	temps
d	0064	100	d	d	d	D	daniela
ð	00F0	240	D	D	D	DH	roda
θ	03B8	952	T	T	T	TH	thriller
k	006B	107	k	k	k	K	casa
g	0067	103	g	g	g	G	gat
ɣ	0263	611	G	G	G	GH	gargot
tʃ	02A7	679	tS	tS	tS	CH2	txec
dʒ	02A4	676	dZ	dZ	dZ	JH2	pitjor
dz	02A3	675	dz	dz	dz	DZ2	dotze
ʃ	0283	643	S	S	S	SH	xàfec
ʒ	0292	658	Z	Z	Z	ZH	jove
f	0066	102	f	f	f	F	foc
s	0073	115	s	s	s	S	sou
z	007A	122	z	z	z	Z	rosa
m	006D	109	m	m	m	M	mà
n	006E	110	n	n	n	N	gran
ɲ	014B	331	N	N	N	NG	blanc
ɲ	0272	626	J	J	J	NJ	nyerro
ɱ	0271	625	F	F	F	MF	
l	006C	108	l	l	l	L	lira
ʎ	028E	654	L	L	L	LJ	llit
r	027E	638	4	r	4	DX	cara
rr	0072 0072	114 114	rr	rr		RR	riu
					r		
w	0077	119	w	w	w	W	àudio
x	0078	120	x	x	x	X	riojana

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	iaia
jj	006A 006A	106 106	jj	jj		J lng	

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	mar
e	0065	101	e	e	e	E	festa
ɛ	025B	603	E	e	E	EH	mel
i	0069	105	i	i	i	I	ric
o	006F	111	o	o	o	O	raó
ɔ	0254	596	O	O	O	AO	rebošt
u	0075	117	u	u	u	U	dur
ə	0259	601	@	@	@	AX	casa

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'	'	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	lng	long mark
·	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	Word boundary
						_ s	pause
						!	sentence terminator

Syllable Symbol		
	,	| sentence terminator
	.	| sentence terminator
	?	| sentence terminator

Czech

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pivo
b	0062	98	b	b	b	B	bota
t	0074	116	t	t	t	T	toto
d	0064	100	d	d	d	D	do
c	0063	99	c	c	c	C	ticho
ɟ	025F	607	J\	J\	J\	DJ	dík
k	006B	107	k	k	k	K	kolo
g	0067	103	g	g	g	G	gril
m	006D	109	m	m	m	M	mouka
ɱ					F		tramvaj
ɱ					m=		osm
n	006E	110	n	n	n	N	nyní
ɳ	006E 0329	110 809	n=	n=	n=	NT	Watson
ŋ	014B	331	N	N	N	NG	banka
f	0066	102	f	f	f	F	foukat
v	0076	118	v	v	v	V	vítr
s	0073	115	s	s	s	S	stůl
z	007A	122	z	z	z	Z	zima
ʃ	0283	643	S	S	S	SH	šelest
j	006A	106	j	j	j	J	je
ɲ	0272	626	J	J	J	NY	laň
ʒ	0292	658	Z	Z	Z	ZH	žár
x	0078	120	x	x	x	X	chomout
ɣ					G		běh dá
l	006C	108	l	l	l	L	lak
r	0072	114	r	r	r	RR	robot
ɾ	0072 031D	114 797	r_r	P\	r_r	RR rai	řád
ɾ̥ (ř)	0072 031D 0325	114 797 805	r_0_r	Q\	r_0_r	RR rai vls	chřest
ɦ	0266	614	h\	h\	h\	HZ	hořet
ts	02A6	678	ts	t_s	ts	TS2	cena

Consonant							
ʃ	02A7	679	tS	t_S	tS	CH2	čas
ɟ	02A4	676	dZ	d_Z	dZ	JH2	džbán
dz				d_z	dz		podzim
ʔ				ʔ			¹ na okně
w	0077	119	w	w	w	W	we
θ	03B8	952	T	T	T	TH	think
ð	00F0	240	D	D	D	DH	this

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.↵

Syllabic Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
l̥	006C 0329	108 809	l=	l=	l=	L syl	Vltava
r̥	0072 0329	114 809	r=	r=	r=	RR syl	vrba

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	máma
ɛ	025B	603	E	e	E	EH	let
ɪ	026A	618	l	i	l	IH	klídt
o	006F	111	o	o	o	O	pod
u	0075	117	u	u	u	U	kup
ə	0259	601	@	@	@	AX	first
ʌ	028C	652	V	V	V	AH	cut

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:	a:	a:	A lng	máma
ɛ:	025B 02D0	603 720	E:	e:	E:	EH lng	létat
i:	0069 02D0	105 720	i:	i:	i:	l lng	klít
o:	006F 02D0	111 720	o:	o:	o:	O lng	móda
u:	0075 02D0	117 720	u:	u:	u:	U lng	kůlna
ɜ:	025C 02D0	604 720	ɜ:	ɜ:	ɜ:	ER	bird

Diphthong							
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Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ou	006F 028A	111 650	oU	o_u	ou	O UH	louka
au	0061 028A	97 650	aU	a_u	au	AU	auto
ɛʊ	025B 028A	603 650	EU	e_u	Eu	EH UH	euro
aɪ	0061 026A	97 618	aɪ	aɪ	aɪ	AI	my
eɪ	0065 026A	101 618	eɪ	eɪ	eɪ	Eɪ	day
ɔɪ	0254 026A	596 618	Oɪ	Oɪ	Oɪ	Oɪ	coin
eə	0065 0259	101 601	e@	e@	e@	E AX	hair
ɪə	026A 0259	618 601	I@	I@	I@	IH AX	near
ʊə	028A 0259	650 601	U@	U@	U@	UH AX	retour

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'	'	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	Ing	long mark
·	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	._&	Word boundary
						._s	pause
						._!	sentence terminator
						._,	sentence terminator
						._.	sentence terminator

Syllable Symbol		
	_?	| sentence terminator

Chinese Mandarin

Symbolic Phonetic Table

The table below shows Chinese pinyin.

Part 1

		Final										
		a	o	e	i	u	v	er	ai	ao	ou	un
Initial	-	a	o	e	-	-	-	er	ai	ao	ou	-
	b	ba	bo	-	bi	bu	-	-	bai	bao	-	-
	p	pa	po	-	pi	pu	-	-	pai	pao	pou	-
	m	ma	mo	-	mi	mu	-	-	mai	mao	mou	-
	f	fa	fo	-	-	fu	-	-	-	-	fou	-
	d	da	-	de	di	du	-	-	dai	dao	dou	dun
	t	ta	-	te	ti	tu	-	-	tai	tao	tou	tun
	n	na	-	ne	ni	nu	nv	-	nai	nao	nou	-
	l	la	-	le	li	lu	lv	-	lai	lao	lou	lun
	g	ga	-	ge	-	gu	-	-	gai	gao	gou	gun
	k	ka	-	ke	-	ku	-	-	kai	kao	kou	kun
	h	ha	-	he	-	hu	-	-	hai	hao	hou	hun
	j	-	-	-	ji	ju	-	-	-	-	-	jun
	q	-	-	-	qi	qu	-	-	-	-	-	qun
	x	-	-	-	xi	xu	-	-	-	-	-	xun
	zh	zha	-	zhe	zhi	zhu	-	-	zhai	zhao	zhou	zhun
	ch	cha	-	che	chi	chu	-	-	chai	chao	chou	chun
	sh	sha	-	she	shi	shu	-	-	shai	shao	shou	shun
	r	-	-	re	ri	ru	-	-	-	rao	rou	run
	z	za	-	ze	zi	zu	-	-	zai	zao	zou	zun
c	ca	-	ce	ci	cu	-	-	cai	cao	cou	cun	
s	sa	-	se	si	su	-	-	sai	sao	sou	sun	
y	ya	yo	ye	yi	yu	-	-	-	yao	you	yun	
w	wa	wo	-	-	wu	-	-	wai	-	-	-	

Part 2

		Final										
		ei	ia	ie	iu	iao	ua	uo	ui	uai	ue	uan
Initial	-	ei	-	-	-	-	-	-	-	-	-	-

b	bei	-	bie	-	biao	-	-	-	-	-	-
p	pei	-	pie	-	piao	-	-	-	-	-	-
m	mei	-	mie	miu	miao	-	-	-	-	-	-
f	fei	-	-	-	-	-	-	-	-	-	-
d	dei	-	die	diu	diao	-	duo	dui	-	-	duan
t	tei	-	tie	-	tiao	-	tuo	tui	-	-	tuan
n	nei	-	nie	niu	niao	-	nuo	-	-	nue	nuan
l	lei	lia	lie	liu	liao	-	luo	-	-	lue	luan
g	gei	-	-	-	-	gua	guo	gui	guai	-	guan
k	kei	-	-	-	-	kua	kuo	kui	kuai	-	kuan
h	hei	-	-	-	-	hua	huo	hui	huai	-	huan
j	-	jia	jie	jiu	jiao	-	-	-	-	jue	juan
q	-	qia	qie	qiu	qiao	-	-	-	-	que	quan
x	-	xia	xie	xiu	xiao	-	-	-	-	xue	xuan
zh	-	-	-	-	-	zhua	zhuo	zhui	zhuai	-	zhuan
ch	-	-	-	-	-	-	chuo	chui	chuai	-	chuan
sh	shei	-	-	-	-	shua	shuo	shui	shuai	-	shuan
r	-	-	-	-	-	-	ruo	rui	-	-	ruan
z	zei	-	-	-	-	-	zuo	zui	-	-	zuan
c	-	-	-	-	-	-	cuo	cui	-	-	cuan
s	-	-	-	-	-	-	suo	sui	-	-	suan
y	-	-	-	-	-	-	-	-	-	yue	yuan
w	wei	-	-	-	-	-	-	-	-	-	-

Part 3

		Final										
		an	ang	ong	en	eng	in	ing	ian	iang	iong	uang
Initial	-	an	ang	-	en	-	-	-	-	-	-	-
	b	ban	bang	-	ben	beng	bin	bing	bian	-	-	-
	p	pan	pang	-	pen	peng	pin	ping	pian	-	-	-
	m	man	mang	-	men	meng	min	ming	mian	-	-	-
	f	fan	fang	-	fen	feng	-	-	-	-	-	-
	d	dan	dang	dong	-	deng	-	ding	dian	-	-	-
	t	tan	tang	tong	-	teng	-	ting	tian	-	-	-
	n	nan	nang	nong	nen	neng	nin	ning	nian	niang	-	-
	l	lan	lang	long	-	leng	lin	ling	lian	liang	-	-
	g	gan	gang	gong	gen	geng	-	-	-	-	-	guang
	k	kan	kang	kong	ken	keng	-	-	-	-	-	kuang

h	han	hang	hong	hen	heng	-	-	-	-	-	huang
j	-	-	-	-	-	jin	jing	jian	jiang	jiong	-
q	-	-	-	-	-	qin	qing	qian	qiang	qiong	-
x	-	-	-	-	-	xin	xing	xian	xiang	xiong	-
zh	zhan	zhang	zhong	zhen	zheng	-	-	-	-	-	zhuang
ch	chan	chang	chong	chen	cheng	-	-	-	-	-	chuang
sh	shan	shang	-	shen	sheng	-	-	-	-	-	shuang
r	ran	rang	rong	ren	reng	-	-	-	-	-	-
z	zan	zang	zong	zen	zeng	-	-	-	-	-	-
c	can	cang	cong	cen	ceng	-	-	-	-	-	-
s	san	sang	song	sen	seng	-	-	-	-	-	-
y	yan	yang	yong	-	-	yin	ying	-	-	-	-
w	wan	wang	-	wen	weng	-	-	-	-	-	-

The table below is a group of phonetic representations and examples of Chinese Mandarin synthesizer.

Chinese Consonant				
IPA	Unicode	Decimal	SAMPA	Example
p	0070	112	p	bo
p ^h	0070 02B0	112 688	p_h	po
m	006D	109	m	mo
f	0066	102	f	fo
t	0074	116	t	de
t ^h	0074 02B0	116 688	t_h	te
n	006E	110	n	ne
l	006C	108	l	le
tʂ	0074 0282	116 642	ts`	zhi
ts	0074 0073	116 115	ts	zi
tʂ ^h	0074 0282 02B0	116 642 688	ts`_h	chi
ts ^h	0074 0073 02B0	116 115 688	ts_h	ci
ʂ	0282	642	s`	shi
s	0073	115	s	si
ʐ	0290	656	z`	ri
tʂ	02A8	680	ts\	ji
tʂ ^h	02A8 02B0	680 688	ts_h	qi
ʐ	0255	597	s\	xi
k	006B	107	k	ge
k ^h	006B 02B0	107 688	k_h	ke

Chinese Consonant				
x	0078	120	x	he
w	0077	119	w	wa
j	006A	106	j	ya
ɥ	0265	613	H	yue
ŋ	014B	331	N	ang

Chinese Vowel				
IPA	Unicode	Decimal	SAMPA	Example
a	0061	97	a	ba
o	006F	111	o	po
ə	0259	601	@	de
aɪ	0061 026A	97 618	aI	kai
aʊ	0061 028A	97 650	aU	dao
əʊ	0259 028A	601 650	@U	tou
eɪ	0065 026A	101 618	eI	fei
i	0069	105	i	xi
ɨ	0268	616	1	zhi
u	0075	117	u	zhu
y	0079	121	y	yu
ɛ	025B	603	E	jie
ə̃	025A	602	@`	er

English Consonant				
IPA	Unicode	Decimal	SAMPA	Example
p	0070	112	p	pen
b	0062	98	b	but
t	0074	116	t	two
d	0064	100	d	do
tʃ	02A7	679	tS	chair
dʒ	02A4	676	dZ	joy
k	006B	107	k	cat
g	0067	103	g	get
f	0066	102	f	fool
v	0076	118	v	voice
θ	03B8	952	T	think
ð	00F0	240	D	this
s	0073	115	s	see

English Consonant				
z	007A	122	z	zoo
ʃ	0283	643	S	she
ʒ	0292	658	Z	pleasure
h	0068	104	h	ham
m	006D	109	m	man
n	006E	110	n	no
ŋ	014B	331	N	ring
l	006C	108	l	left
r	0279	633	r\	wrong
j	006A	106	j	yes
w	0077	119	w	we

English Monophthong				
IPA	Unicode	Decimal	SAMPA	Example
ɒ	0252	594	Q	not
æ	00E6	230	{	cat
e	0065	101	e	pet
ɪ	026A	618	I	city
ʊ	028A	650	U	put
ʌ	028C	652	V	run
ə	0259	601	@	about
ɒ	0252	594	Q	not

English Vowel				
IPA	Unicode	Decimal	SAMPA	Example
ɑ:	0251 02D0	593 720	A:	father
i:	0069 02D0	105 720	i:	see
ɔ:	0254 02D0	596 720	O:	law
u:	0075 02D0	117 720	u:	soon
ɜ:	025C 02D0	604 720	3:	bird

English Diphthong				
IPA	Unicode	Decimal	SAMPA	Example
aɪ	0061 026A	97 618	aI	rise
eɪ	0065 026A	101 618	eI	raise
ɔɪ	0254 026A	596 618	OI	noise
aʊ	0061 028A	97 650	aU	rouse
əʊ	0259 028A	601 650	@U	nose

English Diphthong				
eə	0065 0259	101 601	e@	stairs
ɪə	026A 0259	618 601	l@	fear
ʊə	028A 0259	650 601	U@	cure

Syllable Phonetic Table

Below mentioned syllable symbols could be used with phonetic representation.

Chinese Tone Symbols				
IPA	Unicode	Decimal	SAMPA	Definition
˥	02E5 02E5	741 741	_1	Tone 1
˦	02E7 02E5	743 741	_2	Tone 2
˨	02E8 02E9 02E6	744 745 742	_3	Tone 3
˨˨	02E5 02E9	741 745	_4	Tone 4
˥˥	02E7 02E7	743 743	_0	Neutral Tone

English Syllable Symbols				
IPA	Unicode	Decimal	SAMPA	Definition
ˈ	02C8	712	'	primary stress
ˌ	02CC	716	%	secondary stress
ː	02D0	720	:	long mark
ˑ	002E	46	|	syllable boundary

Danish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p		P	pat
p ^h					p_h		pat
b	0062	98	b	b		B	bat
ɸ					p		bat
t	0074	116	t	t		T	tam
t ^h					t_h		tam
d	0064	100	d	d		D	dat
ɖ					t		dat
k	006B	107	k	k		K	kat
k ^h					k_h		kat
g	0067	103	g	g		G	gat
g̊					k		gat
m	006D	109	m	m	m	M	mat
n	006E	110	n	n	n	N	nat
ŋ	014B	331	N	N	N	NG	lenge
f	0066	102	f	f	f	F	fat
s	0073	115	s	s	s	S	sat
v/ʋ	0076	118	v	v	v	V	vat
h	0068	104	h	h	h	H	hat
j	006A	106	j	j	j	J	ja
l	006C	108	l	l	l	L	ladt
ʀ	0281	641	R	R	R	RH	ret
ʂ	255	597	s\	C	s\	SC	sjat
ð	00F0	240	D	D	D	DH	bad
w	0077	119	w	w	w	W	rav
ʔ				ʔ	ʔ		1vej
mʔ	006D 02C0	109 704	mʔ			M GT	ram
nʔ	006E 02C0	110 704	nʔ			N GT	rand
ŋʔ	014B 02C0	331 704	Nʔ			NG GT	rang
jʔ	006A 02C0	106 704	jʔ			J GT	Thai

Consonant							
lʔ	006C 02C0	108 704	lʔ			L GT	ral
ðʔ	00F0 02C0	240 704	Dʔ			DH GT	ræd
wʔ	0077 02C0	119 704	wʔ			W GT	tav
m̥	006D 0329	109 809	m=			M syl	gennem
n̥	006E 0329	110 809	n=			N syl	katten
ŋ̥	006E 0329	331 809	N=			NG syl	lakken
j	006A 0329	106 809	j=			J syl	nage
/	006C 0329	108 809	/=			L syl	cykel
ð	00F0 0329	240 809	D=			DH syl	kommet
w	0077 0329	119 809	w=			W syl	kræve

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.↵

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ	0251	593	A	A	A	AA	vams
e	0065	101	e	e	e:	E	vind
ə	0259	601	@	@	@	AX	ligge
i	0069	105	i	i	i	I	pinje
u	0075	117	u	u	u	U	hund
y	0079	121	y	y	y	Y	tyst
ɔ	0254	596	O	O	O	AO	obat
ø	00F8	248	2	2	2	EU	pynt
a	0061	97	a	a	a	A	malle
œ	0153	339	9	9	9	OE	skønt
e	0250	592	6			AEX	ligger
ʌ			V		V		ånd
ɛ̥	0250 032F	592 815	6_^			AEX nsy	hør
ɛ	025B	603	E	E	E	EH	ven
o	006F	111	o	o	o	O	ord
ɒ	0252	594	Q	Q		Q	normal
eʔ	0250 02C0	592 704	6ʔ			AEX GT	
ɛʔ	0250 032F 02C0	592 815 704	6_^ʔ			AEX nsy GT	børn

Long Vowel

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	arne
e:	0065 02D0	101 720	e:	e:	e:	E Ing	mele
i:	0069 02D0	105 720	i:	i:	i:	I Ing	mile
u:	0075 02D0	117 720	u:	u:	u:	U Ing	mule
y:	0079 02D0	121 720	y:	y:	y:	Y Ing	syne
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	måle
æ:	00E6 02D0	230 720	ɸ:	ɸ:		AE Ing	male
a:					a:		made
ø:	00F8 02D0	248 720	2:	2:	2:	EU Ing	søle
œ:	0153 02D0	339 720	9:	9:	9:	OE Ing	høne
ɛ:	025B 02D0	603 720	E:	E:	E:	EH Ing	pæne
o:	006F 02D0	111 720	o:	o:	o:	O Ing	mole
ɒ:	0252 02D0	594 720	Q:	Q:		Q Ing	årle
ʌ:					V:		båre
ɑ:?	0251 02D0 02C0	593 720 704	A:?			AA Ing GT	barn
e:?	0065 02D0 02C0	101 720 704	e:?			E Ing GT	fe
i:?	0069 02D0 02C0	105 720 704	i:?			I Ing GT	vin
u:?	0075 02D0 02C0	117 720 704	u:?			U Ing GT	tun
y:?	0079 02D0 02C0	121 720 704	y:?			Y Ing GT	fyn
ɔ:?	0254 02D0 02C0	596 720 704	O:?			AO Ing GT	hån
æ:?	00E6 02D0 02C0	230 720 704	ɸ:?			AE Ing GT	Abel
ø:?	00F8 02D0 02C0	248 720 704	2:?			EU Ing GT	møn
œ:?	0153 02D0 02C0	339 720 704	9:?			OE Ing GT	frøs
ɛ:?	025B 02D0 02C0	603 720 704	E:?			EH Ing GT	pæn
o:?	006F 02D0 02C0	111 720 704	o:?			O Ing GT	to
ɒ:?	0252 02D0 02C0	594 720 704	Q:?			Q Ing GT	tårn

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
ː	02D0	720	:	:	:	Ing	long mark
ˑ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	Word boundary
						_s	pause
						!	sentence terminator
						,	sentence terminator
						.	sentence terminator
						?	sentence terminator

Dutch

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pad
b	0062	98	b	b	b	B	bad
t	0074	116	t	t	t	T	tak
d	0064	100	d	d	d	D	dak
k	006B	107	k	k	k	K	kat
g	0067	103	g	g	g	G	goal
f	0066	102	f	f	f	F	fout
s	0073	115	s	s	s	S	sap
z	007A	122	z	z	z	Z	zat
ʃ	0283	643	S	S	S	SH	sjaal
ʒ	0292	658	Z	Z	Z	ZH	bagage
x	0078	120	x	x	x	X	toch
ɣ	00EA	234	G	G	G	GH	gaan
h	0068	104	h	h	h	H	hand
v	0076	118	v	v	v	V	leven
ʋ	028B	651	P		P	VA	wang
tʃ				tj			potje
l	006C	108	l	l	l	L	land
r	0072	114	r	r	r	RR	rand
m	006D	109	m	m	m	M	mat
n	006E	110	n	n	n	N	nek
ŋ	014B	331	N	N	N	NG	eng
ɲ				nj	J		oranje
tʃ	02A7	679	tS			CH2	check
ts				ts			pats
dʒ	02A4	676	dZ			JH2	jazz
ʔ				ʔ	ʔ		¹ geëerd
ɹ	0279	633	r\			RA	dark
θ	03B8	952	T			TH	thumbnail
ð	00F0	240	D			DH	brother

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.ⵉ

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	jas
w	0077	119	w	w	w	W	windows

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ	0251	593	A	A	A	AA	bad
ɛ	025B	603	E	E	E	EH	bed
ɪ	026A	618	I	I	I	IH	vis
ɔ	0254	596	O	O	O	AO	pot
ʏ	028F	655	Y	Y		YH	hut
ə	0259	601	@	@	@	AX	de
æ	00E6	230	{			AE	happy
ʊ	028A	650	U			UH	hook
ʌ	028C	652	V		V	AH	glove
ɜ̥	025C 032F	604 815	ʒ_^			ER nsy	near

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	naam
e	0065	101	e	e	e	E	heet
i	0069	105	i	i	i	I	diep
o	006F	111	o	o	o	O	poot
y	0079	121	y	y	y	Y	uur
u	0075	117	u	u	u	U	hoed
ø	00F8	248	2	2	2	EU	beuk
ɛ:	025B 02D0	603 720	E:	E:	E:	EH Ing	gêne
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	roze
œ:				9:			oeuvre
œ					9		oeuvre
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	guard
i:	0069 02D0	105 720	i:			I Ing	cheap
u:	0075 02D0	117 720	u:			U Ing	blue

3:	025C 02D0	604 720	3:			ER Ing	bird
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Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0251 0303	593 771	A~	A~	A~	AA nas	chanson
ẽ	025B 0303	603 771	E~	E~	E~	EH nas	timbre
õ	0254 0303	596 771	O~	O~	O~	AO nas	bonbon
œ̃					9~		un soleil
ÿ				Y~			un soleil

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɛi	025B 0069	603 105	Ei		Ei	EH I	fijn
ɛ ⁱ				Ei			fijn
au	0251 0075	593 117	Au		Au	AA U	kou
a ^u				Au			kou
œy	0153 0079	339 121	9y		9y	OE Y	huis
œ ^y				9y			huis
aɪ	0061 026A	97 618	aɪ			AI	rise
eɪ	0065 026A	101 618	eɪ			EI	raise
ɔɪ	0254 026A	596 618	Oɪ			OI	noise

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	Ing	long mark
ˑ	002E	46	|	|	\$	.	syllable boundary

Syllable Symbol							
space	0020	32	space	space	#	_&	Word boundary
						_s	pause
						!	sentence terminator
						,	sentence terminator
						.	sentence terminator
						?	sentence terminator

Finnish

Symbolic Phonetic Table

consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	Paaso
b	0062	98	b	b	b	B	baari
t	0074	116	t	t	t	T	Tuusmäki
d	0064	100	d	d	d	D	dyyni
k	006B	107	k	k	k	K	Kivelä
g	0067	103	g	g	g	G	geeni
f	0066	102	f	f	f	F	filmi
v	028B	651	v	v	v	VA	vakkOLA
s	0073	115	s	s	s	S	Sipoo
ʃ	0283	643	S	S	S	SH	shaali
h	0068	104	h	h	h	H	Hollola
ç				C	C		pihvi
x				x	x		kahvi
m	006D	109	m	m	m	M	Mikkeli
n	006E	110	n	n	n	N	Norja
ŋ	014B	331	N	N	N	NG	Hanko
r	0072	114	r	r	r	RR	Riihimäki
l	006C	108	l	l	l	L	lammi
z	007A	122	z	z	z	Z	zoo
w	0077	119	w	w	w	W	William
ð	00F0	240	D	D	D	DH	this
θ	03B8	952	T	T	T	TH	thing
tʃ	02A7	679	tS	tS	tS	CH2	chair
dʒ	02A4	676	dZ	dZ	dZ	JH2	joy
ʒ	0292	658	Z	Z	Z	ZH	pleasure
mm	006D 006D	109 109	mm			M lng	summa
m:						m:	
nn	006E 006E	110 110	nn			N lng	kannas
n:						n:	
ŋŋ	014B 014B	331 331	NN			NG lng	kangas
ŋ:						N:	

consonant							
pp	0070 0070	112 112	pp			P Ing	keppi
p:					p:		
bb	0062 0062	98 98	bb			B Ing	rabbi
b:					b:		
tt	0274 0074	116 116	tt			T Ing	hattu
t:					t:		
dd	0064 0064	100 100	dd			D Ing	addikti
d:					d:		
kk	006B 006B	107 107	kk			K Ing	kukka
k:					k:		
gg	0067 0067	103 103	gg			G Ing	suggestio
g:					g:		
ff	0066 0066	102 102	ff			F Ing	leffa
f:					f:		
ss	0073 0073	115 115	ss			S Ing	kassa
s:					s:		
vv	028B 028B	651 651	PP			VA Ing	vauvva
v:					v:		
W				W			sauva
ll	006C 006C	108 108	ll			L Ing	nolla
l:					l:		
rr	0072 0072	114 114	rr			RR Ing	hyrrä
r:					r:		

semi vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	Jokela
jj	006A 006A	106 106	jj		jj	J Ing	leijja

vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
i	0069	105	i	i	I	I	Virrat
e	0065	101	e	e		E	Espoo
ɛ					E		
æ	00E6	230	{	{	{	AE	Särkelä
ɑ	0251	593	A	A	A	AA	Alajärvi

vowel							
o	006F	111	o	o	o	O	orsi
u	0075	117	u	u	U	U	Urjala
y	0079	121	y	y	Y	Y	kylä
ø	00F8	248	2	2		EU	höllä
oe					9		höllä
ə	0259	601	@	@	@	AX	about
ʌ	028C	652	V	V	V	AH	cut
i:	0069 02D0	105 720	i:	i:	i:	I Ing	Siirtola
e:	0065 02D0	101 720	e:	e:		E Ing	Eerola
ɛ:					E:		
æ:	00E6 02D0	230 720	{:	{:	{:	AE Ing	ääressä
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	Vaasa
o:	006F 2D0	111 720	o:	o:	o:	O Ing	rooli
u:	0075 02D0	117 720	u:	u:	u:	U Ing	Tuulos
y:	0079 02D0	121 720	y:	y:	y:	Y Ing	syyli
ø:	00F8 02D0	248 720	2:	2:		EU Ing	Töölö
oe:					9:		Töölö
ɜ:	025C 02D0	604 720	3:	3:	3:	ER	bird
ai	0251 0069	593 105	Ai	Ai	Ai	AI	Laihia
ei	0065 0069	101 105	ei	ei		EI	Teisko
ɛi					Ei		
oi	006F 0069	111 105	oi	oi	oi	O I	voi
ui	0075 0069	117 105	ui	ui	ui	U I	Tuisku
æi	00E6 0069	230 105	{i	{i	{i	AE I	Räihä
øi	00F8 0069	248 105	2i	2i		EU I	löi
oei					9i		
yi	0079 0069	121 105	yi	yi	yi	Y I	Lyijynen
au	0251 0075	593 117	Au	Au	Au	AU	Maula
ou	006F 0079	111 117	ou	ou	ou	O U	Oulu
eu	0065 0075	101 117	eu	eu		E U	teutonit
ɛu					Eu		
iu	0069 0075	105 117	iu	iu	iu	I U	Viuha
æy	00E6 0079	230 121	{y	{y	{y	AE Y	Käyli
iy	0069 0079	105 121	iy	iy	iy	I Y	siistiytynt
ie	0069 0065	105 101	ie	ie		I E	Kierinki
iɛ					iE		

vowel							
uo	0079 006f	117 111	uo	uo	uo	U O	Tuorila
øy	00F8 0079	248 121	2y	2y		EU Y	köysi
oey					9y		
yø	0079 00F8	121 248	y2	y2		Y EU	Hyönölä
yoe					y9		
eə	0065 0259	101 601	e@	e@		E AX	stairs
ɛə					E@		stairs
ɪə	026A 0259	618 601	l@	l@	l@	IH AX	fear
ʊə	028A 0259	650 601	U@	U@	U@	UH AX	cure

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	lng	long mark
ˑ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	Word boundary
						_ s	pause
						!	sentence terminator
						,	sentence terminator
						.	sentence terminator
						?	sentence terminator

French

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	pont
b	0062	98	b	b	b	b	bon
t	0074	116	t	t	t	t	temps
d	0064	100	d	d	d	d	dans
tʃ	02A7	679	tʃ			t sh	lunch
dʒ	02A4	676	dʒ			d zh	jazz
k	006B	107	k	k	k	k	canadienne
g	0067	103	g	g	g	g	gant
f	0066	102	f	f	f	f	femme
v	0076	118	v	v	v	v	vent
s	0073	115	s	s	s	s	sans
z	007A	122	z	z	z	z	zone
ʃ	0283	643	ʃ	ʃ	ʃ	sh	champ
ʒ	0292	658	ʒ	ʒ	ʒ	zh	gens
m	006D	109	m	m	m	m	mont
n	006E	110	n	n	n	n	nom
ɲ	0272	626	ɲ	ɲ	ɲ	nj	oignon
ŋ	014B	331	ŋ	ŋ	ŋ	ng	camping
l	006C	108	l	l	l	l	long
ʁ	0281	641	ʁ	ʁ		r	rond
R					R\		rond
ʀ					ʀ		harpon
h	0068	104	h				how

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	y	pierre
ɥ	0265	613	ɥ	ɥ	ɥ	hy	juin
w	0077	119	w	w	w	w	oui

Vowel							
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Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	a	dame
e	0065	101	e	e	e	ey	ses
i	0069	105	i	i	i	iy	si
o	006F	111	o	o	o	ow	gros
u	0075	117	u	u	u	uw	doux
y	0079	121	y	y	y	uy	du
ø	00F8	248	2	2	2	eu	deux
ɑ	0251	593	A	A	A	aa	glas
ɔ	0254	596	O	O	O	oh	comme
ə	0259	601	@	@	@	ax	justement
ɛ	025B	603	E	E	E	eh	examen
œ	0153	339	9	9	9	oe	neuf

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0251 0303	593 771	A~		A~	a~	vent
õ	0254 0303	596 771	O~		O~	ow~	bon
ɛ̃	025B 0303	603 771	E~		E~	ey~	vin
œ̃	0153 0303	339 771	9~	9~	9~	oe~	brun
ã				a~			vent
ɛ̃				e~			vin
õ				o~			bon

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'	'	1	primary stress
ˌ	02CC	716	%	%	%		secondary stress
ː	02D0	720	:	:	:		long mark
ˑ	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary

Syllable Symbol		
	-	pause
	!	Sentence terminator
	,	Sentence terminator
	.	Sentence terminator
	?	Sentence terminator

German

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	Pein
b	0062	98	b	b	b	b	Bein
t	0074	116	t	t	t	t	Teich
d	0064	100	d	d	d	d	Dach
k	006B	107	k	k	k	k	Kunst
g	0067	103	g	g	g	g	Gunst
ʔ				ʔ	ʔ		¹ Verein
pf	0070 0066	112 102	pf	pf	pf	pf	Pfahl
ts	02A6	678	ts	ts	ts	ts	Zahl
tʃ	02A7	679	tS	tS	tS	ch	Deutsch
dʒ	02A4	676	dZ	dZ	dZ	jh	Dschungel
f	0066	102	f	f	f	f	fast
v	0076	118	v	v	v	v	was
θ	03B8	952	T			t^h	Bluetooth
ð	00F0	240	D			d^h	Motherboard
s	0073	115	s	s	s	s	Tasse
z	007A	122	z	z	z	z	Hase
ʃ	0283	643	S	S	S	sh	Schnee
ʒ	0292	658	Z	Z	Z	zh	Genie
ç	00E7	231	C	C	C	x^x	Chemie
x	0078	120	x	x	x	x	Buch
h	0068	104	h	h	h	h	Hand
m	006D	109	m	m	m	m	mein
ɱ	006D 0329	109 809	m=	=m	m=	ax^m	Luxemburg
n	006E	110	n	n	n	n	nein
ɳ	006E 0329	110 809	n=	=n	n=	ax^n	haben
ŋ	014B	331	N	N	N	ng	Ding
l	006C	108	l	l	l	l	Leim
ɭ	006C 0329	108 809	l=	=l	l=	ax^l	Kessel

R	0280	640	R\			r^x	Reim
r				r	r		Reim
ʀ							Wort
ɹ	0279	633	r\			r	wrong

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.↵

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	y	Jahr
w	0077	119	w		w	v^v	Website

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	a	Satz
i	0069	105	i			iy	Politik
u	0075	117	u			uw	brutal
e	0250	592	6	6		a^h	besser
r					6		besser
ɔ	0254	596	O	O	O	oh	Trotz
ə	0259	601	@	@	@	ax	Gesetz
ɛ	025B	603	E	E	E	eh	Ecke
ɪ	026A	618	I	I	I	ih	Milch
œ	0153	339	9	9	9	oe	plötzlich
ʊ	028A	650	U	U	U	uh	um
ʏ	028F	655	Y	Y	Y	uy	hübsch
ə̃	025A	602	@^			ax^r	Trailer

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0251 0303	593 771	A~	A~	A~	a~	Restaurant
ɛ̃	025B 0303	603 771	E~	E~	E~	eh~	Teint
õ	0254 0303	596 771	O~	O~	O~	oh~	Bonbon
œ̃	0153 0303	339 771	9~	9~	9~	oe~	Parfum

Long Vowel							
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IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:	a:	a:	a:	Tat
e:	0065 02D0	101 720	e:	e:	e:	ey:	Beet
i:	0069 02D0	105 720	i:	i:	i:	iy:	Lied
o:	006F 02D0	111 720	o:	o:	o:	ow:	Rot
u:	0075 02D0	117 720	u:	u:	u:	uw:	Blut
y:	0079 02D0	121 720	y:	y:	y:	ue	süß
ø:	00F8 02D0	248 720	2:	2:	2:	eu:	Blöd
ɛ:	025B 02D0	603 720	E:	E:	E:	eh:	spät

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	al	al		ay	Eis
ai					ai		Eis
aʊ	0061 028A	97 650	aU	aU		aw	Haus
au					au		Haus
ɔʏ	0254 028F	596 655	OY	OY		oy	Heute
ɔy					OY		Heute
oʊ	006F 028A	111 650	oU			ow uh	Snowboard

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	1	primary stress
ˌ	02CC	716	%	%	%	2	secondary stress
ː	02D0	720	:	:	:	:	long mark

Syllable Symbol							
.	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary
˘						^	linking
	0023	35				-	pause
						!	sentence terminator
						,	sentence terminator
						.	sentence terminator
						?	sentence terminator

Hebrew

Symbolic Phonetic Table

* Please note that the positions of the phoneme symbols cannot be highlighted for the language's characteristics.

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	פר
b	0062	98	b	b	b	b	בית
f	0066	102	f	f	f	f	הפוך
					F		
v	0076	118	v	v	v	v	ואדים
m	006D	109	m	m	m	m	מציאה
t	0074	116	t	t	t	t	תפוח, טלית
d	0064	100	d	d	d	d	דבר
ts	02A6	678	ts	ts	ts	ts	צמה
s	0073	115	s	s	s	s	סיפור
z	007A	122	z	z	z	z	זהב
n	006E	110	n	n	n	n	נמל
					N	N	
l	006C	108	l	l	l	l	לבד
tʃ	02A7	679	tʃ	tʃ	tʃ	tʃ	צ'ינסלובקי
dʒ	02A4	676	dʒ	dʒ	dʒ	dʒ	ג'ינס
					dz	dz	
ʃ	0283	643	ʃ	ʃ	ʃ	ʃ	שלכת
ʒ	0292	658	ʒ	ʒ	ʒ	ʒ	מסאז
j	006A	106	j	j	j	j	ירח
k	006B	107	k	k	k	k	כדור
g	0067	103	g	g	g	g	גמל
X/x	0078	120	X	x	X	X	שרוך
ʀ	0281	641	ʀ	ʀ	ʀ	ʀ	רוגע
w	0077	119	w	w	w	w	ושינגטון
ʔ	0294	660	ʔ	ʔ	ʔ	ʔ	אמירה
h	0068	104	h	h	h	h	הליכה
r	0072	114	r	r	r	r	rose
θ	03B8	952	T	T	T	T	thing

Consonant							
ð	00F0	240	D	D	D	D	this
ŋ	014B	331	N	N	N	N	sing

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
i	0069	105	i	i	i	i	גִּימְלֵ
e	0065	101	e	e	e	e	בֵּית
a	0061	97	a	a	a	a	אֶלֶף
u	0075	117	u	u	u	u	וּן
o	006F	111	o	o	o	o	וּד
ə	0259	601	@	@	@	@	teacher

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:		:	lng	long mark
ˌ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	word boundary
						_ s	pause
						_ !	Sentence terminator
						_ '	Sentence terminator
						_ .	Sentence terminator
						_ ?	Sentence terminator

Hindi

Symbolic Phonetic Table

* Please note that the positions of the phoneme symbols cannot be highlighted for the language's characteristics.

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p			P	पल
b	0062	98	b			B	बला
t	0074	116	t			T	ताल
d	0064	100	d			D	दाम
ɖ	0256	598	d`			DR	डाल
k	006B	107	k			K	का
g	0067	103	g			G	गोल
m	006D	109	m			M	माली
n	006E	110	n			N	नाली
ŋ	014B	331	N			NG	अंग
ɳ	0273	627	n`			NR	मंडी
f	0066	102	f			F	फ़न
v	028B	651	P			VA	वहाँ
s	0073	115	s			S	सात
ʃ	0282	642	s`			SR	हर्ष
x	0078	120	x			X	खाक
z	007A	122	z			Z	मंजिल
ʈ	0288	648	t`			TR	टप्पा
ʃ	0283	643	S			SH	शाम
ʈʃ	02A7	679	tS			CH2	चाल
ɖʒ	02A4	676	dZ			JH2	आज
ɣ	0263	611	G			GH	गैर
h	0068	104	h			H	हाल
ɦ							
l	006C	108	l			L	लोग
r	027E	638	4			RR	रोग
ɽ	027D	637	r`			DXR	पड़
ɽ̥	027D 0324	637 804	r`_t			DXR bvd	पढ़
pʰ	0070 02B0	112 688	p_h			P asp	फल

b ^h	0062 02B0	98 688	b_h			B asp	भला
ḃ							
t ^h	0074 02B0	116 688	t_h			T asp	थाल
ṭ ^h	0288 02B0	648 688	t`_h			TR asp	ठप्पा
d ^h	0064 02B0	100 688	d_h			D asp	धाम
ḍ							
ḍ ^h	0256 02B0	598 688	d`_h			DR asp	ढाल
ḍ̣							
k ^h	006B 02B0	107 688	k_h			K asp	खाना
g ^h	0067 02B0	103 688	g_h			G asp	घोल
ḡ							
tʃ ^h	02A7 02B0	679 688	tS_h			CH2 asp	छाल
dʒ ^h	02A4 02B0	676 688	dZ_h			JH2 asp	झीना
ḏ̣							
pp	0070 0070	112 112	pp			P Ing	ठप्पा
p:							
bb	0062 0062	98 98	bb			B Ing	अब्बा
b:							
tt	0074 0074	116 116	tt			T Ing	कुत्ता
t:							
dd	0064 0064	100 100	dd			D Ing	गद्दी
d:							
ḍḍ	0256 0256	598 598	dd`			DR Ing	हड्डी
ḍ:							
kk	006B 006B	107 107	kk			K Ing	पक्का
k:							
gg	0067 0067	103 103	gg			G Ing	खग्गा
g:							
mm	006D 006D	109 109	mm			M Ing	अम्मा
m:							
nn	006E 006E	110 110	nn			N Ing	पन्ना
n:							
ff	0066 0066	102 102	ff			F Ing	गप्फ़ार
f:							
vv	028B 028B	651 651	vv			VA Ing	अव्वल
v:							

ss	0073 0073	115 115	ss			S Ing	हिस्सा
s:							
tt	0288 0288	648 648	tt`			TR Ing	पट्टी
t:							
JJ	0283 0283	643 643	SS			SH Ing	निश्शंक
J:							
zz	007A 007A	122 122	zz			Z Ing	इज़्ज़त
z:							
tʃ	0074 02A7	116 679	ttS			CH2 Ing	बच्चा
ʃ:							
dʒ	0064 02A4	100 676	ddZ			JH2 Ing	लज्जा
ʒ:							
ll	006C 006C	108 108	ll			L Ing	बिल्ली
l:							
rr	0072 0072	114 114	rr			RR Ing	ढर्रा
r:/r							
pp ^h	0070 0070 02B0	112 112 688	pp_h			P asp Ing	फुप्फ़स
p ^h :							
tt ^h	0074 0074 02B0	116 116 688	tt_h			T asp Ing	हत्था
t ^h :							
ʈ ^h	0288 0288 02B0	648 648 688	tt`_h			TR asp Ing	भट्टी
ʈ ^h :							
dd ^h	0064 0064 02B0	100 100 688	dd_h			D asp Ing	सिद्ध
d ^h :/d̪:							
ɖɖ ^h	0256 0256 02B0	598 598 688	dd`_h			DR asp Ing	गड्डा
ɖ ^h :/d̪:							
kk ^h	006B 006B 02B0	107 107 688	kk_h			K asp Ing	मक्खी
k ^h :							
gg ^h	0067 0067 02B0	103 103 688	gg_h			G asp Ing	बग्घी
g ^h :/g:							
tʃ ^h	0074 02A7 02B0	116 679 688	ttS_h			CH2 asp Ing	अच्छा
ʃ ^h :							

दृ	0064 02A4 02B0	100 676 688	ddZ_h			JH2 asp Ing	इज्ज़र
दृः/दृः							
θ	03B8	952	T			TH	thing
ð	00F0	240	D			DH	this
ʒ	0292	658	Z			ZH	pleasure
w	0077	119	w			W	we

Semi Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j			J	यहाँ
jj	006A 006A	106 106	jj			J Ing	शय्या

Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ə	0259	601	@			AX	कब
ɑ	0251	593	A			AA	का
a:							
ɪ	026A	618	I			IH	कि
i	0069	105	i			I	की
ʊ	028A	650	U			UH	कुत्ता
u	0075	117	u			U	कूचा
e	0065	101	e			E	के
ɛ	025B	603	E			EH	कैसा
o	006F	111	o			O	को
ɔ	0254	596	O			AO	कौन
ə̃	0259 0303	601 771	@~			AX nas	संहिता
ɑ̃	0251 0303	593 771	A~			AA nas	गांव
ɪ̃	026A 0303	618 771	I~			IH nas	सिंचाई
ĩ	0069 0303	105 771	i~			I nas	कहीं
ʊ̃	028A 0303	650 771	U~			UH nas	कुँवर
ũ	0075 0303	117 771	u~			U nas	गेहूँ
ẽ	0065 0303	101 771	e~			E nas	हमें
ɛ̃	025B 0303	603 771	E~			EH nas	भैस
õ	006F 0303	111 771	o~			O nas	क्यों
õ̃	0254 0303	596 771	O~			AO nas	चौंसठ

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
·	02C8	712	'			S1	primary stress
˙	02CC	716	%			S2	secondary stress
:	02D0	720	:			Ing	long mark
·	002E	46	|			·	syllable boundary
space	0020	32	space			_&	word boundary
						_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_·	Sentence terminator
						_?	Sentence terminator

Hungarian

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	por
b	0062	98	b	b	b	B	bor
t	0074	116	t	t	t	T	túró
d	0064	100	d	d	d	D	dal
c	0063	99	c	c	c	CT	tyúk
ɟ	025F	607	ɟ\	ɟ\	ɟ\	JD	gyűrű
k	006B	107	k	k	k	K	kép
g	0067	103	g	g	g	G	golya
m	006D	109	m	m	m	M	magyar
n	006E	110	n	n	n	N	nap
ɲ	0272	626	ɲ	ɲ	ɲ	NJ	nyár
f	0066	102	f	f	f	F	fa
v	0076	118	v	v	v	V	vonat
w	0077	119	w	w	w	W	what
s	0073	115	s	s	s	S	szoba
z	007A	122	z	z	z	Z	zebra
ʃ	0283	643	ʃ	ʃ	ʃ	SH	sál
ʒ	0292	658	ʒ	ʒ	ʒ	ZH	zsiráf
h	0068	104	h	h	h	H	ház
ɦ			ɦ\	ɦ\			zuhany
r	0072	114	r	r	r	RR	róka
l	006C	108	l	l	l	L	ló
ts	02A6	678	ts	ts	ts	TS2	cica
dz	02A3	675	dz	dz	dz	DZ2	brindza
tʃ	02A7	679	tʃ	tʃ	tʃ	CH2	csacsi
dʒ	02A4	676	dʒ	dʒ	dʒ	JH2	dzsem
x	0078	120	x	x	x	X	düh
ð	00F0	240	ð	ð	ð	DH	they
ɱ	0271	625	ɱ	ɱ		MF	honvéd
ŋ	014B	331	ŋ	ŋ	ŋ	NG	hang
θ	03B8	952	θ	θ	θ	TH	bath

Consonant							
pp	0070 0070	112 112	pp	pp	pp	P Ing	éppen
bb	0062 0062	98 98	bb	bb	bb	B Ing	ebben
tt	0274 0074	116 116	tt	tt	tt	T Ing	étterem
dd	0064 0064	100 100	dd	dd	dd	D Ing	életmóddal
cc	0063 0063	99 99	cc	cc	cc	C Ing	hattyú
ʃ	025F 025F	607 607	JJ\	JJ\	JJ\	JD Ing	buggyant
kk	006B 006B	107 107	kk	kk	kk	K Ing	rokkant
gg	0067 0067	103 103	gg	gg	gg	G Ing	aggat
mm	006D 006D	109 109	mm	mm	mm	M Ing	semmi
nn	006E 006E	110 110	nn	nn	nn	N Ing	kanna
ɲɲ	0272 0272	626 626	JJ	JJ	JJ	NJ Ing	menny
ff	0066 0066	102 102	ff	ff	ff	F Ing	röffent
vv	0076 0076	118 118	vv	vv	vv	V Ing	hévvvel
ss	0073 0073	115 115	ss	ss	ss	S Ing	asszony
zz	007A 007A	122 122	zz	zz	zz	Z Ing	rezzen
ʃʃ	0283 0283	643 643	SS	SS	SS	SH Ing	édesség
ʒʒ	0292 0292	658 658	ZZ	ZZ	ZZ	ZH Ing	mélygarázzsal
rr	0072 0072	114 114	rr	rr	rr	RR Ing	arra
ll	006C 006C	108 108	ll	ll	ll	L Ing	allergia
tts	0274 02A6	116 678	tts	tts	tts	TS2 Ing	játssz
ttʃ	0274 02A7	116 679	ttS	ttS	ttS	CH2 Ing	taníts
ddz	0064 02A3	100 675	ddz	ddz	ddz	DZ2 Ing	eddz

Consonant							
đɟ	0064 02A4	100 676	ddZ	ddZ	ddZ	JH2 lng	briddzsel

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	játék
jj	006A 006A	106 106	jj	jj	jj	J lng	fej

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
i	0069	105	i	i	i	I	iskola
y	0079	121	y	y	y	Y	üt
ɛ	025B	603	E	E	E	EH	ember
ɔ	0254	596	O	O		AO	hat
a	0061	97	a	a		A	café
ɑ					A		café
ø	00F8	248	2	2	2	EU	ökör
o	006F	111	o	o	o	O	okos
u	0075	117	u	u	u	U	udvar
i:	0069 02D0	105 720	i:	i:	i:	I lng	víz
y:	0079 02D0	121 720	y:	y:	y:	Y lng	tűz
e:	0065 02D0	101 720	e:	e:	e:	E lng	ég
a:	0061 02D0	97 720	a:	a:	a:	A lng	ág
ø:	00F8 02D0	248 720	2:	2:	2:	EU lng	őr
o:	006F 02D0	111 720	o:	o:	o:	O lng	óra
u:	0075 02D0	117 720	u:	u:	u:	U lng	út

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition

Syllable Symbol							
.	02C8	712	'	'	'	S1	primary stress
.	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:		:	Ing	long mark
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator
						_?	Sentence terminator

Indian English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pen
p ^h				p _h			Phalguni
b	0062	98	b	b	b	B	but
b ^h				b _h			Bhagya
t	0074	116	t			T	two
t̪				t̪`	t̪`		tin
t̪̥				t̪			Taal
t̪ ^h				t̪`_h			Thakkar
d	0064	100	d			D	do
d̪				d̪`	d̪`		dim
d̪ ^h				d̪_h			Dharmindra
d̪ ^h				d̪`_h			Dhaka
tʃ	02A7	679	tʃ	tʃ	tʃ	CH2	chair
tʃ ^h				tʃ_h			Chota
dʒ	02A4	676	dʒ	dʒ	dʒ	JH2	joy
dʒ ^h				dʒ_h			Jhabua
k	006B	107	k	k	k	K	cat
k ^h				k_h			Khan
g	0067	103	g	g	g	G	get
g ^h				g_h			Ghare
f	0066	102	f	f	f	F	fool
v	0076	118	v			V	voice
ʊ				v\	P		very
θ	03B8	952	T			TH	think
t̪ ^h				t̪_h			thin
t̪ ^h					t̪_h		thin
ð	00F0	240	D			DH	this
ɖ				d			this
d ^h					d_h		that

Consonant							
s	0073	115	s	s	s	S	see
z	007A	122	z	z	z	Z	zoo
ʃ	0283	643	S	S	S	SH	she
ʒ	0292	658	Z	Z	Z	ZH	pleasure
h	0068	104	h	h	h	H	ham
m	006D	109	m	m	m	M	man
n	006E	110	n	n	n	N	no
ŋ	014B	331	N		N	NG	ring
l	006C	108	l	l	l	L	left
ɹ	0279	633	r\			RA	run, wrong
r					r		ride
r				r			wrong
j	006A	106	j	j	j	J	yes
w	0077	119	w	w	w	W	we

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɒ	0252	594	Q	Q	Q	Q	not
æ	00E6	230	{	{	{	AE	cat
e	0065	101	e			E	bed
ɛ				E	E		pet
ɪ	026A	618	l	l	l	IH	city
ʊ	028A	650	U	U	U	UH	put
ʌ	028C	652	V		V	AH	run
ə	0259	601	@	@	@	AX	about

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:			AA Ing	father
a				a			bar
ɑ					A:		car
i:	0069 02D0	105 720	i:			I Ing	see
i				i	i:		beat
ɔ:	0254 02D0	596 720	O:			AO Ing	law
ɔ					O:		door
u:	0075 02D0	117 720	u:			U Ing	soon

Long Vowel							
u				u	u:		boot
ɜ:	025C 02D0	604 720	ɜ:			ER lng	bird
ɜ					ɜ:		turn

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aɪ	aɪ	aɪ	AI	rise
eɪ	0065 026A	101 618	eɪ			EI	raise
e				e	e		play
ɔɪ	0254 026A	596 618	Oɪ		Oɪ	Oɪ	noise
oe				oe			boy
aʊ	0061 028A	97 650	aʊ	aʊ	aʊ	AU	rouse
əʊ	0259 028A	601 650	@ʊ			AX UH	nose
o				o	o		show
eə	0065 0259	101 601	e@			EHX	stairs
ɪə	026A 0259	618 601	l@			IYX	fear
ʊə	028A 0259	650 601	U@			UWX	cure

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:		:	lng	long mark
ˌ	002E	46	|	|	\$	ˌ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
	0023	35				_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator

Syllable Symbol		
	_?	Sentence terminator

Indonesian

Symbolic Phonetic Table

Consonant						
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	SAPI	Example
p	0070	112	p	p	P	palu
b	0062	98	b	b	B	baca
t	0074	116	t	t	T	tanah
d	0064	100	d	d	D	dahi
k	006B	107	k	k	K	kaca
g	0067	103	g	g	G	gajah
tʃ	02A7	679	tS	tS	CH2	cari
dʒ	02A4	676	dZ	dZ	JH2	jalan
f	0066	102	f	f	F	foto
v	0076	118	v		V	vodka
s	0073	115	s	s	S	suka
z	007A	122	z	z	Z	zat
ʃ	0283	643	S	S	SH	syarat
h	0068	104	h	h	H	hari
x	0078	120	x	x	X	khusus
m	006D	109	m	m	M	mata
n	006E	110	n	n	N	nasi
ŋ	014B	331	N	N	NG	ngilu
ɲ	0272	626	J	J	NJ	nyonya
l	006C	108	l	l	L	lima
r	0072	114	r	r	RR	rasa
ʔ	0294	660	ʔ	ʔ	GT	1maaf
θ	03B8	952	T	T	TH	think
ð	00F0	240	D	D	DH	this
ʒ	0292	658	Z	Z	ZH	zaman
ɹ	0279	633	r\		RA	wrong

1. ¹ The pronunciation of Sampa is [ma]ʔaf]. ㄹ

Semi-Vowel						
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	SAPI	Example
j	006A	106	j	j	J	yakin

Semi-Vowel						
w	0077	119	w	w	W	wanita

Monophthong						
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	SAPI	Example
a	0061	97	a	a	A	anggur
e	0065	101	e	e	E	enak
i	0069	105	i	i	I	ikan
o	006F	111	o	o	O	roti
u	0075	117	u	u	U	utara
ɛ	025B	603	E	E	EH	bebek
ɪ				I		baik
ɔ	0254	596	O	O	AO	obat
ʊ				U		minum
ə	0259	601	@	@	AX	besar

Diphthong						
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	SAPI	Example
ai	0061 0069	97 105	ai	ai	AI	sampai
au	0061 0075	97 117	au	au	AU	atau
oi	006F 0069	111 105	oi	oi	OI	koboi

Syllable Phonetic Table

Syllable Symbol						
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	SAPI	Definition
.	002E	46	|	|	.	syllable boundary
space	0020	32		space	_&	word boundary
	0023	35			_s	pause
					_!	Sentence terminator
					_'	Sentence terminator
					-'	Sentence terminator
					_?	Sentence terminator

Irish English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p		P	pat
b	0062	98	b	b		B	bat
t	0074	116	t	t		T	tin
d	0064	100	d	d		D	din
k	006B	107	k	k		K	coat
g	0067	103	g	g		G	goat
ɣ				G			Taigh
tʃ	02A7	679	tS	tS		CH2	cheap
dʒ	02A4	676	dZ	dZ		JH2	jungle
f	0066	102	f	f		F	fat
v	0076	118	v	v		V	vat
θ	03B8	952	T	T		TH	thin
ð	00F0	240	D	D		DH	then
s	0073	115	s	s		S	sin
z	007A	122	z	z		Z	zoo
ʃ	0283	643	S	S		SH	she
ʒ	0292	658	Z	Z		ZH	measure
h	0068	104	h	h		H	he
x				x			Loch
m	006D	109	m	m		M	map
n	006E	110	n	n		N	nap
ɲ	006E 0329	110 809	n=	=n		N syl	couldn't
ɱ				=m			Wilsham
/				=/			turtle
ŋ	014B	331	N	N		NG	ring
r	0072	114	r	r		RR	run
ɹ							run
l	006C	108	l	l		L	left
w	0077	119	w	w		W	we
j	006A	106	j	j		J	yes

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a		A	naïve
æ				{			cat
ʌ	028C	652	V	V		AH	cut
ə	0259	601	@	@		AX	about
ɛ	025B	603	E			EH	bed
e				e			pet
ɪ	026A	618	I	I		IH	bit
ɒ	0252	594	Q	Q		Q	dog
ʊ	028A	650	U	U		UH	hook
ɹ	025C 032F	604 815	3_^			ER nsy	near

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:			AA Ing	far
ɑ:				A			far
i:	0069 02D0	105 720	i:			I Ing	free
i:				i			free
ɔ:	0254 02D0	596 720	O:			AO Ing	more
ɔ:				O			more
u:	0075 02D0	117 720	u:			U Ing	do
u:				u			do
ɜ:	025C 02D0	604 720	3:			ER Ing	bird
ɜ:				3			bird

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TASAMPA	SAPI	Example
aɪ	0061 026A	97 618	aI	aI		AI	my
aʊ	0061 028A	97 650	aU	aU		AU	now
eɪ	0065 026A	101 618	eI	eI		EI	day
ɛʊ	025B 28A	603 650	EU			EH UH	now
eə				e@			hair
ɪə				I@			near
oʊ	006F 028A	111 650	oU			O UH	no
əʊ				@U			nose

Diphthong							
ɔɪ	0254 026A	596 618	OI	OI		OI	boy
ʊə				U@			tour

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'		S1	primary stress
ˌ	02CC	716	%	%		S2	secondary stress
ː	02D0	720	:			Ing	long mark
·	002E	46	|	|		·	syllable boundary
space	0020	32	space	space		_&	Word boundary
						_s	pause
						_!	sentence terminator
						_.	sentence terminator
						-.	sentence terminator
						_?	sentence terminator

Italian

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pane
b	0062	98	b	b	b	B	banco
t	0074	116	t	t	t	T	tana
d	0064	100	d	d	d	D	danno
k	006B	107	k	k	k	K	cane
g	0067	103	g	g	g	G	gamba
ts	02A6	678	ts	ts	ts	TS2	zitto
dz	02A3	675	dz	dz	dz	DZ2	zona
tʃ	02A7	679	tS	tS	tS	CH2	cena
dʒ	02A4	676	dZ	dZ	dZ	JH2	gita
f	0066	102	f	f	f	F	fame
v	0076	118	v	v	v	V	vano
s	0073	115	s	s	s	S	sano
z	007A	122	z	z	z	Z	sbaglio
ʒ	0292	658	Z	Z	Z	ZH	garage
ʃ	0283	643	S	S	S	SH	scendo
m	006D	109	m	m	m	M	molla
n	006E	110	n	n	n	N	nocca
ŋ	014B	331	N	N		NG	anche
ɲ	0272	626	J	J	J	NJ	gnocco
r	0072	114	r	r	r	RR	rete
ɾ	0271	625	F			MF	infatti
l	006C	108	l	l	l	L	lama
ʎ	028E	654	L	L	L	LJ	gli
h	0068	104	h			H	hoping
θ	03B8	952	T			TH	threw

Double Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
pp	0070 0070	112 112	pp	pp		P Ing	coppa
p:					p:		coppa

bb	0062 0062	98 98	bb	bb		B Ing	gobba
b:						b:	gobba
tt	0074 0074	116 116	tt	tt		T Ing	zitto
t:						t:	zitto
dd	0064 0064	100 100	dd	dd		D Ing	cadde
d:						d:	cadde
kk	006B 006B	107 107	kk	kk		K Ing	nocca
k:						k:	nocca
gg	0067 0067	103 103	gg	gg		G Ing	fugga
g:						g:	fugga
tts	0074 02A6	116 678	tts	tts		TS2 Ing	bozza
ts:						ts:	bozza
ddz	0064 02A3	100 675	ddz	ddz		DZ2 Ing	mezzo
dz:						dz:	mezzo
ttf	0074 02A7	116 679	ttS	ttS		CH2 Ing	faccia
tf:						tS:	faccia
ddz	0064 02A4	100 676	ddZ	ddZ		JH2 Ing	oggi
dz:						dZ:	oggi
ff	0066 0066	102 102	ff	ff		F Ing	beffa
f:						f:	beffa
vv	0076 0076	118 118	vv	vv		V Ing	bevvi
v:						v:	bevvi
ss	0073 0073	115 115	ss	ss		S Ing	cassa
s:						s:	cassa
jj	0283 0283	643 643	SS	SS		SH Ing	viscidità
j:						S:	viscidità
mm	006D 006D	109 109	mm	mm		M Ing	grammo
m:						m:	grammo
nn	006E 006E	110 110	nn	nn		N Ing	panna
n:						n:	panna
jj	0272 0272	626 626	JJ	JJ		NJ Ing	bagno
j:						J:	bagno
rr	0072 0072	114 114	rr	rr		RR Ing	ferro
r:						r:	ferro
ll	006C 006C	108 108	ll	ll		L Ing	colla
l:						l:	colla

ʌ	028E 028E	654 654	LL	LL		LJ Ing	foglia
ʌ:						L:	foglia

Semi-Consonant

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	ieri
w	0077	119	w	w	w	W	uomo

Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	rate
e	0065	101	e	e	e	E	rete
ɛ	025B	603	E	E	E	EH	meta
i	0069	105	i	i	i	I	mite
o	006F	111	o	o	o	O	dove
ɔ	0254	596	O	O	O	AO	moto
u	0075	117	u	u	u	U	muto
ə	0259	601	@			AX	birth

Diphthong

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ai					ai		faida
ei					ei		beinasco
oi					oi		noi
ui					ui		Luisa
ɛi					Ei		beirut
ɔi					Oi		freud
au					au		causa
eu					eu		europa
ɛu					Eu		feudo

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'	'	S1	primary stress

Syllable Symbol							
.	02CC	716	%	%	%	S2	secondary stress
:					:	Ing	length mark
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
	0023	35				_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_·	Sentence terminator
						_?	Sentence terminator

Japanese

Symbolic Phonetic Table

Consonant			
IPA	Unicode	Decimal	SAMPA
p	0070	112	p
t	0074	116	t
k	006B	107	k
b	0062	98	b
d	0064	100	d
g	0261	609	g
r	027E	638	4
s	0073	115	s
ʃ	0283	643	S
h	0068	104	h
ts	02A6	678	ts
tʃ	02A7	679	tS
dz	02A3	675	dz
dʒ	02A4	676	dZ
m	006D	109	m
n	006E	110	n
N	0274	628	Nɸ

Vowel			
IPA	Unicode	Decimal	SAMPA
a	0061	97	a
e	0065	101	e
i	0069	105	i
o	006F	111	o
u	026F	623	M
a:	0061 02D0	97 720	aa
e:	0065 02D0	101 720	ee
i:	0069 02D0	105 720	ii
o:	006F 02D0	111 720	oo
u:	026F 02D0	623 720	MM
ja	006A 0061	106 97	ja
je	006A 0065	106 101	je

Vowel			
jo	006A 006F	106 111	jo
ju	006A 026F	106 623	jM
ja:	006A 0061 02D0	106 97 720	jaa
je:	006A 0065 02D0	106 101 720	jee
jo:	006A 006F 02D0	106 111 720	joo
ju:	006A 026F 02D0	106 623 720	jMM
wa	0077 0061	119 97	wa
we	0077 0065	119 101	we
wi	0077 0069	119 105	wi
wo	0077 006F	119 111	wo
wa:	0077 0061 02D0	119 97 720	waa
we:	0077 0065 02D0	119 101 720	wee
wi:	0077 0069 02D0	119 105 720	wii
wo:	0077 006F 02D0	119 111 720	woo

Syllable Phonetic Table

Syllable Symbol				
IPA	Unicode	Decimal	SAMPA	Definition
↓	2193	8595	!	Downstep (アクセント上がり)
|	007C	124	|	Minor Break (アクセント句の区切り)
||	2016	8214	||	Major break

Korean

Symbolic Phonetic Table

Onset Consonant					
IPA	Unicode	Decimal	SAMPA	Example	Example of SAMPA
p	0070	112	p	바다	pa|da
p ^h	0070 02B0	112 688	p _h	포도	p _h o|do
b	0062	98	b	시비	si|bi
t	0074	116	t	다음	ta|Mm
t ^h	0074 02B0	116 688	t _h	토요일	t _h o|jo|iil
d	0064	100	d	기도	ki|do
tɕ	02A8	680	ts\	저울	ts\|ul
tɕ ^h	02A8 02B0	680 688	ts\ _h	치과	ts\ _h i|ggwa
dʒ	02A3	675	dʒ	기자	ki|dʒa
k	006B	107	k	구두	ku|du
k ^h	006B 02B0	107 688	k _h	카드	k _h a|dM
g	0067	103	g	지구	tsʌ|gu
s	0073	115	s	사과	sa|gwa
h	0068	104	h	효과	hjo|ggwa
x	0078	120	x	이해	i|xɛ
m	006D	109	m	메기	me|gi
n	006E	110	n	나무	na|mu
l	006C	108	l	라면	la|mjVn
r	0072	114	r	고리	ko|ri

Double Onset Consonant					
IPA	Unicode	Decimal	SAMPA	Example	Example of SAMPA
bb	0062 0062	98 98	bb	빼꾸기	bbV|ggu|gi
dd	0064 0064	100 100	dd	딸기	dda|gi
tɕɕ	02A8 02A8	680 680	tts\	쭈꾸미	tts\|u|ggu|mi
gg	0067 0067	103 103	gg	꼬마	ggo|ma
ss	0073 0073	115 115	ss	싸움	ssa|um

Coda Consonant					
IPA	Unicode	Decimal	SAMPA	Example	Example of SAMPA
p	0070	112	p	집	tsʌip
t	0074	116	t	밭침	pat|ts\ _h im

Coda Consonant					
k	006B	107	k	목	mok
m	006D	109	m	힘	him
n	006E	110	n	손	son
ŋ	014B	331	ŋ	장기	tsʌŋgi
l	006C	108	l	날개	nalgɛ

Monophthong					
IPA	Unicode	Decimal	SAMPA	Example	Example of SAMPA
a	0061	97	a	아기	a|gi
e	0065	101	e	에누리	e|nu|ri
i	0069	105	i	이발	i|bal
o	006F	111	o	오리	o|ri
u	0075	117	u	우산	u|san
ɛ	025B	603	ɛ	애교	ɛ|gjo
ø	F8	248	2	외국	2|guk
ʌ	028C	652	v	어머니	v|mV|ni
ʊ	026F	623	M	드디어	tM|di|V

Diphthong					
IPA	Unicode	Decimal	SAMPA	Example	Example of SAMPA
ja	006A 0061	106 97	ja	야구	ja|gu
je	006A 0065	106 101	je	예술	je|sul
jo	006A 006F	106 111	jo	요리	jo|ri
ju	006A 0075	106 117	ju	유자	ju|dza
jɛ	006A 025B	106 603	jɛ	얘기	jɛ|gi
jʌ	006A 028C	106 652	jv	여기	jv|gi
wa	0077 0061	119 97	wa	와우	wa|u
we	0077 0065	119 101	we	웨딩	we|diN
wi	0077 0069	119 105	wi	위기	wi|gi
wɛ	0077 025B	119 603	wɛ	왜	wɛ
wʌ	0077 028C	119 652	wv	워낭	wv|naN
ʍi	026F 0069	623 105	Mi	의사	Mi|sa

Syllable Phonetic Table

Syllable Symbol				
IPA	Unicode	Decimal	SAMPA	Definition
.	002E	46	|	Syllable Boundary

Syllable Symbol				
space	0020	32	space	Word Boundary

Latvian

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p			P	paša
b	0062	98	b			B	būtiski
t	0074	116	t			T	tiesas
d	0064	100	d			D	dažas
c	0063	99	c			CT	ķīnas
ɟ	025F	607	J\			JD	ģīmi
k	006B	107	k			K	kļuva
g	0067	103	g			G	galvas
m	006D	109	m			M	malas
n	006E	110	n			N	nomas
ɲ	0272	626	J			NJ	astoņas
ŋ	014B	331	N			NG	alsungas
f	0066	102	f			F	fronti
v	0076	118	v			V	viens
s	0073	115	s			S	seši
z	007A	122	z			Z	zeķītes
ʃ	0283	643	S			SH	šarma
ʒ	0292	658	Z			ZH	žesti
h	0068	104	h			H	adhezīvs
l	006C	108	l			L	labad
ɭ	028E	654	L			LJ	ļaudis
r	0072	114	r			RR	rasēts
ts	02A6	678	ts			TS2	cenās
dz	02A3	675	dz			DZ2	dzejas
tʃ	02A7	679	tS			CH2	čuguna
dʒ	02A4	676	dZ			JH2	džiga
ð	00F0	240	D			DH	weather
θ	03B8	952	T			TH	mouth

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example

Semi Vowel							
j	006A	106	j			J	jenis
w	0077	119	w			W	we

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a			A	aklais
ɛ	025B	603	E			EH	eliasa
i	0069	105	i			I	isaja
ɔ	0254	596	O			AO	okonovs
u	0075	117	u			U	unāme
ʌ	028C	652	V			AH	run
ə	0259	601	@			AX	about
æ	00E6	230	{			AE	elgas
ɒ	0252	594	Q			Q	not

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:			A lng	ābeces
ɛ:	025B 02D0	603 720	E:			EH lng	ērgle
i:	0069 02D0	105 720	i:			I lng	īvi
ɔ:	0254 02D0	596 720	O:			AO lng	opīti
u:	0075 02D0	117 720	u:			U lng	ūdens
æ:	00E6 02D0	230 720	{:			AE lng	ēsmas
ɜ:	025C 02D0	604 720	3:			ER lng	bird

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ai	0061 0069	97 105	ai			AI	airēts
au	0061 0075	97 117	au			AU	auroras
ɛi	025B 0069	603 105	Ei			EH I	eidīņš
iɛ	0069 025B	105 603	iE			I EH	iedega
iu	0069 0075	105 117	iu			I U	neliuss
uɔ	0075 0254	117 596	uO			U AO	ona
eə	0065 0259	101 601	e@			E AX	hair
ɪə	026A 0259	618 601	I@			IH AX	near
ʊə	028A 0259	650 601	U@			UH AX	tour

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ			S1	primary stress
ˌ	02CC	716	%			S2	secondary stress
:	02D0	720	:			Ing	long mark
·	002E	46	|			·	syllable boundary
space	0020	32	space			_&	Word boundary
						_s	pause
						_!	sentence terminator
						_.	sentence terminator
						-.	sentence terminator
						_?	sentence terminator

Mexican Spanish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	padre
b	0062	98	b	b	b	B	barista
t	0074	116	t	t	t	T	tomo
d	0064	100	d	d	d	D	donde
k	006B	107	k	k	k	K	casa
g	0067	103	g	g	g	G	gato
tʃ	02A7	679	tS	tS	tS	CH2	mucho
f	0066	102	f	f	f	F	fácil
β	03B2	946	B	B	B	BH	cabo
θ	03B8	952	T			TH	cinco
ð	00F0	240	D	D	D	DH	nada
s	0073	115	s	s	s	S	sala
z	007A	122	z	z	z	Z	mismo
x	0078	120	x	x	x	X	mujer
ç				X			jinete
ɣ	0263	611	G	G	G	GH	luego
m	006D	109	m	m	m	M	mismo
n	006E	110	n	n	n	N	nunca
ŋ	014B	331	N	N	N	NG	tango
ɲ	0272	626	J	J	J	NJ	año
l	006C	108	l	l	l	L	lejos
ʎ	028E	654	L		L	LJ	caballo
j	029D	669	jj	jj	j\	CJ	mayo
r	027E	638	4	r	4	DX	puro
r	0072	114	r	rr		RR	carro
r:					r:		carro
dʒ	02A4	676	dZ	dZ	dZ	JH2	joy
ʃ	0283	643	S		S	SH	she
ç				X			jinete
v	0076	118	v			V	voice

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	pie
w	0077	119	w	w	w	W	fuego
W				W			hueso

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	valle
e	0065	101	e	e	e	E	pero
i	0069	105	i	i	i	I	pico
o	006F	111	o	o	o	O	toro
u	0075	117	u	u	u	U	duro
ʌ	028C	652	V			AH	run
ə	0259	601	@			AX	about
ɜ:	025C 02D0	604 720	3:			ER Ing	bird

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:			:	:	:		long mark
ˌ	002E	46	|	|	\$	ˌ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator
						_ˊ	Sentence terminator
						_ˋ	Sentence terminator
						_?	Sentence terminator

New Zealand English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p		P	pat
b	0062	98	b	b		B	bat
t	0074	116	t	t		T	tin
d	0064	100	d	d		D	din
k	006B	107	k	k		K	coat
g	0067	103	g	g		G	goat
tʃ	02A7	679	tS	tS		CH2	cheap
dʒ	02A4	676	dZ	dZ		JH2	jungle
f	0066	102	f	f		F	fat
v	0076	118	v	v		V	vat
θ	03B8	952	T	T		TH	thin
ð	00F0	240	D	D		DH	then
s	0073	115	s	s		S	sin
z	007A	122	z	z		Z	zoo
ʃ	0283	643	S	S		SH	she
ʒ	0292	658	Z	Z		ZH	measure
h	0068	104	h	h		H	he
m	006D	109	m	m		M	map
n	006E	110	n	n		N	nap
ŋ	006E 0329	110 809	n=			N syl	couldn't
ŋ	014B	331	N	N		NG	ring
r	0072	114	r	r		RR	run
l	006C	108	l	l		L	left
w	0077	119	w	w		W	we
j	006A	106	j	j		J	yes

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a			A	naive
æ	00E6	230	{	{		AE	cat
ʌ	028C	652	V	V		AH	cut

Vowel							
ə	0259	601	@	@		AX	about
ɛ	025B	603	E	E		EH	bed
ɪ	026A	618	I	I		IH	bit
ɒ	0252	594	Q			Q	dog
ɒ				c			dog
ʊ	028A	650	U	U		UH	hook

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:			AA Ing	far
ɑ:				A			far
i:	0069 02D0	105 720	i:			I Ing	free
i:				i			free
ɔ:	0254 02D0	596 720	O:			AO Ing	more
ɔ:				O			more
u:	0075 02D0	117 720	u:			U Ing	do
u:				u			do
ɜ:	025C 02D0	604 720	3:			ER Ing	bird
ɜ:				3			bird

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aI	aI		AI	my
aʊ	0061 028A	97 650	aU	aU		AU	now
eɪ	0065 026A	101 618	eI			EI	day
eɪ				e			day
ɛə	025B 0259	603 601	E@			EHX	hair
eə				e@			hair
ɪə	026A 0259	618 601	I@	I@		IH AX	near
oʊ	006F 028A	111 650	oU			O UH	no
əʊ				o			nose
ɔɪ	0254 026A	596 618	OI	OI		OI	boy
ʊə	028A 0259	650 601	U@	U@		UH AX	tour

Syllable Phonetic Table

Syllable Symbol

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ		S1	primary stress
ˌ	02CC	716	%	%		S2	secondary stress
:	02D0	720	:			Ing	long mark
·	002E	46	|	|		·	syllable boundary
space	0020	32	space	space		_&	Word boundary
						_s	pause
						_!	sentence terminator
						_'	sentence terminator
						_.	sentence terminator
						_?	sentence terminator

Norwegian

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	hopp
b	0062	98	b	b	b	B	lab b
t	0074	116	t	t	t	T	lat
d	0064	100	d	d	d	D	ladd
k	006B	107	k	k	k	K	takk
g	0067	103	g	g	g	G	tagg
f	0066	102	f	f	f	F	fin
v	0076	118	v	v	v	V	vin
s	0073	115	s	s	s	S	lass
ʃ	0283	643	S	S	S	SH	skyt
ɕ					s`		vers
ç	00E7	231	C	C	C	C	kino
h	0068	104	h	h	h	H	ha
m	006D	109	m	m	m	M	lam
n	006E	110	n	n	n	N	vann
ŋ	014B	331	N	N	N	NG	sang
l	006C	108	l	l	l	L	fall
r	027E	638	r	r	4	RR	prøv
ʈ	0288	648	rt	rt	t`	TR	hardt
ɖ	0256	598	rd	rd	d`	DR	verdi
ɭ	026D	621	rl	rl	l`	LR	ærlig
ɻ	0273	627	rn	rn	n`	NR	garn
ɳ	006E 0329	110 809	n=	n=	n=	N syl	kisten
ɳ̥	0273 0329	627 809	rn=	rn=	n`=	NR syl	gård en
ɮ	006C 0329	108 809	l=	l=	l=	L syl	kittels
ɮ̥	026D 0329	621 809	rl=	rl=	l`=	LR syl	barsel
tʃ	02A7	679	tS	tS	tS	CH	chair
dʒ	02A4	676	dZ	dZ	dZ	JH	joy
z	007A	122	z	z	z	Z	zoo
w	0077	119	w	w	w	W	we

θ	03B8	952	T	T	T	TH	think
ð	00F0	240	D	D	D	DH	this
ʒ	0292	658	Z	Z	Z	ZH	pleasure

Semi Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	gi

Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɪ	026A	618	i	i	I	IH	vind
ɛ	025B	603	e	e	E	EH	send
æ	00E6	230	{	{	{	AE	vært
ɑ	0251	593	A	A	A	AA	hatt
ɹ	028F	655	y	y	Y	YH	lynne
ø	00F8	248	2	2	2	EU	søtt
œ					9		søtt
ɔ	0254	596	O	O	O	AO	vått
u	0075	117	u	u	U	U	bukk
ɰ	0289	649	}	}	}	YX	lund
ü	028A 0308				U_"		gull
ə	0259	601	@	@	@	AX	bakke
ʌ	028C	652	V	V	V	AH	cut

Long Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
i:	0069 02D0	105 720	i:	i:	i:	I Ing	vin
e:	0065 02D0	101 720	e:	e:	e:	E Ing	sen
æ:	00E6 02D0	230 720	ɸ:	ɸ:	ɸ:	AE Ing	vær
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	hat
y:	0079 02D0	121 720	y:	y:	y:	Y Ing	lyn
ø:	00F8 02D0	248 720	2:	2:	2:	EU Ing	søt

ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	våt
o:					o:		tog
u:	0075 02D0	117 720	u:	u:	u:	U Ing	bok
ɥ:	0289 02D0	649 720	ɥ:	ɥ:	ɥ:	YX Ing	lun
ɜ:	025C 02D0	604 720	ɜ:	ɜ:	ɜ:	ER	bird

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
æɪ	00E6 026A	230 618	{i	{i		AE I	vei
ɛɪ					EI		vei
øɣ	00F8 028F	248 655	2y	2y		EU YH	høy
œɣ					9Y		høy
æɥ	00E6 0289	230 649	Aɥ	Aɥ		AE YX	sau
ɛ̥					EU_ "		tau
ɑɪ	0251 026A	593 618	Ai	Ai	AI	AI	kai
ɔɣ	0254 028F	596 655	Oy	Oy		AO YH	konvoy
ɔɪ					OI		konvoi
aʊ	0061 028A	97 650	aU	aU	aU	AW	about
oʊ	006F 028A	111 650	oU	oU	oU	OW	nose
eə	0065 0259	101 601	e@	e@		E AX	stairs
ɛə					E@		stairs
ɪə	026A 0259	618 601	l@	l@	l@	IH AX	fear
ʊə	028A 0259	650 601	U@	U@	U@	UH AX	cure

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'		'	S1 T1	primary stress(Tone 1)
ˑ		39		'			

Syllable Symbol							
`	0060	96	''	''	''	S1 T2	primary stress(Tone 2)
.	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	Ing	long mark
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	sentence terminator
						_'	sentence terminator
						_.	sentence terminator
						_?	sentence terminator

Polish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pora
b	0062	98	b	b	b	B	belka
t	0074	116	t	t	t	T	tok
d	0064	100	d	d	d	D	dar
k	006B	107	k	k	k	K	kura
g	0067	103	g	g	g	G	gazeta
m	006D	109	m	m	m	M	matka
n	006E	110	n	n	n	N	norka
ɲ	0272	626	J	n'	J	NJ	koń
ŋ	014B	331	N	N	N	NG	bank
f	0066	102	f	f	f	F	furtka
v	0076	118	v	v	v	V	worek
s	0073	115	s	s	s	S	sum
z	007A	122	z	z	z	Z	zero
ʃ				S	S		szaty
ʂ	0282	642	s`			SR	szum
ʒ				Z	Z		żał
ʐ	0290	656	z`			ZR	żona
x	0078	120	x	x	x	X	handel
l	006C	108	l	l	l	L	lipa
r	0072	114	r	r	r	RR	rok
ɸ	0255	597	s\	s'	s\	SC	śruba
ʑ	0291	657	z\	z'	z\	ZC	źrebię
ts	02A6	678	ts	ts	ts	TS2	car
tʂ	0074 0282	116 642	ts`			TSR	czas
tʃ				tS	tS		czas
tʃ				t-S			trzy
dz	02A3	675	dz	dz	dz	DZ2	dzwon
dʐ	0064 0290	100 656	dz`			DZR	dżem
dʑ				dZ	dZ		dżem
dʑ				d-Z			drzewo

Consonant							
tɛ	02A8	680	ts\	ts'	ts\	CC2	ćma
dʒ	02A5	677	dz\	dz'	dz\	JC2	dźwięk
θ	03B8	952	T	T		TH	think
ð	00F0	240	D	D		DH	this
h	0068	104	h	h		H	house
ʔ				ʔ			¹ aorta
tʃ				ttS			czczy
ddʒ				ddZ			dźdźy
ss				ss			ssać
s:					s:		ssak
zz				zz			zza
z:					z:		zza
pʲ				p'			pik
bʲ				b'			biada
tʲ				t'			tirli
dʲ				d'			dialekt
kʲ				k'			kilka
gʲ				g'			gigant
mʲ				m'			milion
rʲ				r'			austria
lʲ				l'			lipiec
fʲ				f'			fik
vʲ				v'			wiele
xʲ				x'			hit
zzʲ				zz'			zzieleniał
ssʲ				ss'			ssie
m:					m:		adam mknie
n:					n:		inny
ɲ:					ɲ:		kon niesie
r:					r:		terrorysta
f:					f:		w fizyce
v:					v:		w warszawie
ʃ:					ʃ:		porwiesz szwy
ʒ:					ʒ:		masz żniwa
x:					x:		zapach chleba

Consonant							
ɛ:					s\:		jaś śpi
ʒ:					z\:		weż żrebaka
l:					l:		willa
j:					j:		najjaśniej
w:					w:		paweł łągał

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.↵

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	jak
w	0077	119	w	w	w	W	łaska

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	rate
ɛ	025B	603	E	e	E	EH	echo
i	0069	105	i	i	i	I	ile
ɔ	0254	596	O		O	AO	oczy
o				o			rok
u	0075	117	u		u	U	uczta
ʊ				u			kura
ɨ	0268	616	1		1	IX	dym
ʌ	028C	652	V			AH	brush
ə	0259	601	@			AX	motion
æ	00E6	230	{			AE	shadow
ɒ	0252	594	Q			Q	what
ɪ				l			mysz
y				y			müller

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɛ̃	025B 0303	603 771	E~	e~	E~	EH nas	węże
ɔ̃	0254 0303	596 771	O~	o~	O~	AO nas	wąż
ɨ̃				j~			państwo

Nasal Vowel							
Ź				w~			czyją

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0251 02D0	593 720	A:		A:	AA Ing	gardens
ɜ:	025C 02D0	604 720	3:			ER Ing	bird
ɛ:					E:		reedukacja
i:	0069 02D0	105 720	i:		i:	I Ing	free
ɔ:	0254 02D0	596 720	O:		O:	AO Ing	more
u:	0075 02D0	117 720	u:		u:	U Ing	too

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aɪ			AI	like
aʊ	0061 028A	97 650	aʊ			AU	about
eɪ	0065 026A	101 618	eɪ			EI	day
eə	0065 0259	101 601	e@			E AX	where
ɛə							where
ɪə	026A 0259	618 601	ɪ@			IH AX	near
oʊ	006F 028A	111 650	oʊ			O UH	only
ɔɪ	0254 026A	596 618	Oɪ			Oɪ	enjoy
ʊə	028A 0259	650 601	ʊ@			UH AX	pure

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress

Syllable Symbol							
.	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	Ing	long mark
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	Word boundary
						_ s	pause
						_ !	sentence terminator
						_ '	sentence terminator
						_ .	sentence terminator
						_ ?	sentence terminator

Portuguese

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	povo
b	0062	98	b	b	b	B	bola
t	0074	116	t	t	t	T	tema
d	0064	100	d	d	d	D	dado
tʃ	02A7	679	tS			CH2	cappuccino
dʒ	02A4	676	dZ			JH2	garage
k	006B	107	k	k	k	K	caro
g	0067	103	g	g	g	G	gato
f	0066	102	f	f	f	F	festa
v	0076	118	v	v	v	V	vento
s	0073	115	s	s	s	S	selo
z	007A	122	z	z	z	Z	casa
ʃ	0283	643	S	S	S	SH	chá
ʒ	0292	658	Z	Z	Z	ZH	gelo
m	006D	109	m	m	m	M	cama
n	006E	110	n	n	n	N	nabo
ɲ	0272	626	J	J	J	NJ	nhando
l	006C	108	l	l	l	L	lápis
ɫ				W	5		palha
ʎ	028E	654	L	L	L	LJ	palha
r				r			caro
ʀ	027E	638	4		4	DX	caro
ʁ	0281	641	R	R	R	RH	carro
θ	03B8	952	T			TH	threw

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	pai
ɥ	006A 0303	106 771	j~		j~	J nas	mãe
w	0077	119	w	w	w	W	causa
ɰ	0077 0303	119 771	w~		w~	W nas	mão

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	pautar
e	0065	101	e	e	e	E	cedo
i	0069	105	i	i	i	I	tipo
o	006F	111	o	o	o	O	força
u	0075	117	u	u	u	U	pula
ɐ	0250	592	6	6	6	AEX	americana
ɨ				@			pesquisa
ɘ	0259	601	@		@	AX	pesquisa
ɛ	025B	603	E	E	E	EH	mezinha
ɔ	0254	596	O	O	O	AO	oposto

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ẽ	0250 0303	592 771	6~	6~	6~	AEX nas	cantar
ě	0065 0303	101 771	e~	e~	e~	EN	tempo
ĩ	0069 0303	105 771	i~	i~	i~	I nas	interior
õ	006F 0303	111 771	o~	o~	o~	ON	pronto
ũ	0075 0303	117 771	u~	u~	u~	U nas	punção

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
˙				%	%		secondary stress
ˌ	002E	46	|	|	\$	.	syllable boundary
space	0020	32		space	#	_&	word boundary
	0023	35				_s	pause
						_!	Sentence terminator
						_ˊ	Sentence terminator
						_˙	Sentence terminator
						_?	Sentence terminator

Romanian

Symbolic Phonetic Table

Consonant						
IPA	Unicode	Decimal	SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	P	parte
pʲ	0070 02B2	112 690	p_j	p_j	p pal	plopi
b	0062	98	b	b	B	ban
bʲ	0062 02B2	98 690	b_j	b_j	B pal	brebi
t	0074	116	t	t	T	tare
tʲ	0074 02B2	116 690	t_j	t_j	T pal	balintești
d	0064	100	d	d	D	dar
dʲ	0064 02B2	100 690	d_j	d_j	D pal	andi
k	006B	107	k	k	K	casă
kʲ	006B 02B2	107 690	k_j	k_j	K pal	ochi
g	0067	103	g	g	G	gară
gʲ	0067 02B2	103 690	g_j	g_j	G pal	bunghi
m	006D	109	m	m	M	mare
mʲ	006D 02B2	109 690	m_j	m_j	M pal	ulmi
n	006E	110	n	n	N	nară
nʲ	006E 02B2	110 690	n_j	n_j	N pal	aldeni
ŋ	014B	331	N	N	ng	tanc
r	0072	114	r	r	RR	rac
rʲ	0072 02B2	114 690	r_j	r_j	RR pal	albinari
f	0066	102	f	f	F	far
fʲ	0066 02B2	109 690	f_j	f_j	F pal	pantofi
v	0076	118	v	v	V	var
vʲ	0076 02B2	118 690	v_j	v_j	V pal	activi
s	0073	115	s	s	S	sac
sʲ	0073 02B2	115 690	s_j	s_j	S pal	sași
z	007A	122	z	z	Z	ziduri
zʲ	007A 02B2	122 690	z_j	z_j	Z pal	brazi
ʃ	0283	643	S	S	SH	șarpe
ʃʲ	0283 02B2	643 690	S_j	S_j	SH pal	pași
ʒ	0292	658	Z	Z	ZH	joc
ʒʲ	0292 02B2	658 690	Z_j	Z_j	ZH pal	obraji

h	0068	104	h	h	H	horă
hʲ	0068 02B2	104 690	h_j	h_j	H	ierarhi
ts	02A6	678	ts	ts	TS2	țară
tsʲ	02A6 02B2	678 690	ts_j	ts_j	TS2 pal	vieți
tʃ	02A7	679	tS	tS	CH2	ceas
tʃʲ	02A7 02B2	679 690	tS_j	tS_j	CH2 pal	ridici
dʒ	02A4	676	dZ	dZ	JH2	geam
dʒʲ	02A4 02B2	676 690	dZ_j	dZ_j	JH2 pal	fugi
l	006C	108	l	l	L	lat
lʲ	006C 02B2	108 690	l_j	l_j	L pal	boli
ð	00F0	240	D	D	DH	weather
θ	03B8	952	T	T	TH	mouth
r	0279	633	r\		R	rainbow

Semi Vowel

IPA	Unicode	Decimal	SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j_X	J	doi
w	0077	119	w	w_X	W	sau
ɤ	0065 032F	101 815	e_^	e_X	E nsy	deasă
ɔ	006F 032F	111 815	o_^	o_X	O nsy	culoare

Vowel

IPA	Unicode	Decimal	SAMPA	TA-SAMPA	SAPI	Example
i	0069	105	i	i	I	vin
ɨ	0268	616	1	1	IX	fân, în
u	0075	117	u	u	U	sur
e	0065	101	e	e	E	fel
ə	0259	601	@	@	AX	măr
o	006F	111	o	o	O	loc
a	0061	97	a	a	A	cap
æ	00E6	230	{		AE	happy
ø	00F8	248	2		EU	bleu
y	0079	121	y		Y	tul

Syllable Phonetic Table

Syllable Symbol						
IPA	Unicode	Decimal	SAMPA	TA-SAMPA	SAPI	Definition

Syllable Symbol						
'	02C8	712	'	'	S1	primary stress
'	02CC	716	%	%	S2	secondary stress
:	02D0	720	:	:	Ing	long mark
.	002E	46	|	\$	.	syllable boundary
space	0020	32	space	#	_&	word boundary
					_s	pause
					!	sentence terminator
					,	sentence terminator
					.	sentence terminator
					?	sentence terminator

Russian

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	пар
b	0062	98	b	b	b	B	бар
t	0074	116	t	t	t	T	так
d	0064	100	d	d	d	D	дать
k	006B	107	k	k	k	K	кот
g	0067	103	g	g	g	G	год
m	006D	109	m	m	m	M	мод
n	006E	110	n	n	n	N	нос
r	0072	114	r	r	r	RR	рак
ɫ	026B	619	l	l	l	L vel	лак, лук
f	0066	102	f	f	f	F	фон
v	0076	118	v	v	v	V	вол
s	0073	115	s	s	s	S	сок
z	007A	122	z	z	z	Z	зол
x	0078	120	x	x	x	X	холл
ɣ				G	G		трёхгорный
ʃ	0283	643	S	S	S	SH	шар
ʒ	0292	658	Z	Z	Z	ZH	жук
ts	02A6	678	ts	ts	ts	TS	цирк
dz	02A3	675	dz	dz	dz	DZ	спецдом
tʃ	02A7	679	tS	tS	tS	CH	имидж
dʒ				dZ	dZ		джем
pp	0070 0070	112 112	pp			P Ing	группа
p:				pp			группа
bb	0062 0062	98 98	bb			B Ing	абба
b:				bb			абба
tt	0274 0074	116 116	tt			T Ing	отток
t:				tt			отток
dd	0064 0064	100 100	dd			D Ing	отдам
d:				dd			отдам

kk	006B 006B	107 107	kk			K lng	оргкомитет
k:				kk			оргкомитет
gg	0067 0067	103 103	gg			G lng	квагга
g:				gg			квагга
mm	006D 006D	109 109	mm			M lng	суммы
m:				mm			суммы
nn	006E 006E	110 110	nn			N lng	тонна
n:				nn			тонна
rr	0072 0072	114 114	rr			RR lng	мирра
r:				rr			мирра
ll	006C 006C	108 108	ll			L lng	вилла
l:				ll			вилла
ff	0066 0066	102 102	ff			F lng	диффузия
f:				ff			диффузия
vv	0076 0076	118 118	vv			V lng	ввод
v:				vv			ввод
ss	0073 0073	115 115	ss			S lng	иссох
s:				ss			иссох
zz	007A 007A	122 122	zz			Z lng	беззубый
z:				zz			беззубый
xx	0078 0078	120 120	xx			X lng	трёхходовка
x:				xx			трёхходовка
jj	0283 0283	643 643	SS			SH lng	сшить
j:				SS			сшить
33	0292 0292	658 658	ZZ			ZH lng	сжечь
3:				ZZ			сжечь
tts	02A6 02A6	678 678	tts			TS lng	отца
ts:				tts			отца
pj	0070 02B2	112 690	p_j	p_j	p_j	p pal	пять
bj	0062 02B2	98 690	b_j	b_j	b_j	B pal	бег
tj	0074 02B2	116 690	t_j	t_j	t_j	T pal	тёк

dl	0064 02B2	100 690	d_j	d_j	d_j	D pal	дѣд
kl	006B 02B2	107 690	k_j	k_j	k_j	K pal	кит
gl	0067 02B2	103 690	g_j	g_j	g_j	G pal	гид
ml	006D 02B2	109 690	m_j	m_j	m_j	M pal	мѣд
nl	006E 02B2	110 690	n_j	n_j	n_j	N pal	нѣс
rl	0072 02B2	114 690	r_j	r_j	r_j	RR pal	рек
ll	006C 02B2	108 690	l_j	l_j	l_j	L pal	лѣг
fl	0066 02B2	109 690	f_j	f_j	f_j	F pal	фен
vl	0076 02B2	118 690	v_j	v_j	v_j	V pal	вѣл
sl	0073 02B2	115 690	s_j	s_j	s_j	S pal	сѣк
zl	007A 02B2	122 690	z_j	z_j	z_j	Z pal	зим
xl	0078 02B2	120 690	x_j	x_j	x_j	X pal	хит
ʃl	0283 02B2	643 690	S_j	S_j	S_j	SH pal	щѣк
ʒl	0292 02B2	658 690	Z_j	Z_j	Z_j	ZH pal	чащъ- баишево
tʃl	02A7 02B2	679 690	tS_j	tS_j	tS_j	CH pal	чур
ɖʒl				dZ_j	dZ_j		чур
ppl	0070 0070 02B2	112 112 690	pp_j			P pal lng	группе
pl:				pp_j			группе
bbi	0062 0062 02B2	98 98 690	bb_j			B pal lng	хобби
bi:				bb_j			хобби
tti	0274 0074 02B2	116 116 690	tt_j			T pal lng	оттѣк
ti:				tt_j			оттѣк
ddi	0064 0064 02B2	100 100 690	dd_j			D pal lng	отдел
di:				dd_j			отдел

kkj	006B 006B 02B2	107 107 690	kk_j		K pal lng	мекке
kj:				kk_j		мекке
ggj	0067 0067 02B2	103 103 690	gg_j		G pal lng	регги
gj:				gg_j		регги
mmj	006D 006D 02B2	109 109 690	mm_j		M pal lng	сумме
ml:				mm_j		сумме
nnj	006E 006E 02B2	110 110 690	nn_j		N pal lng	тонне
nl:				nn_j		тонне
rrj	0072 0072 02B2	114 114 690	rr_j		RR pal lng	сюрреалист
rl:				rr_j		сюрреалист
llj	006C 006C 02B2	108 108 690	ll_j		L pal lng	колли
lj:				ll_j		колли
ffj	0066 0066 02B2	109 109 690	ff_j		F pal lng	аффикс
fl:				ff_j		аффикс
vvj	0076 0076 02B2	118 118 690	vv_j		V pal lng	ввёл
vl:				vv_j		ввёл
ssj	0073 0073 02B2	115 115 690	ss_j		S pal lng	иссёк
sl:				ss_j		иссёк
zzj	007A 007A 02B2	122 122 690	zz_j		Z pal lng	иззябший
zl:				zz_j		иззябший
xxj	0078 0078 02B2	120 120 690	xx_j		X pal lng	воххе
xl:				xx_j		воххе
ʃʃ	0283 0283 02B2	643 643 690	ss_j		SH pal lng	бессчётный
ʃ:				ss_j		бессчётный
ʒʒ						дрожжи
ʒ:				ZZ_j		дрожжи

ɤʃ	02A7 02A7 02B2	116 679 690	ttS_j			CH pal Ing	отчёт
ʃ:				ttS_j			отчёт

Semi-Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	мой

Vowel

IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ	0251	593	A	A	A	AA	ваза
a					a		ваза
æ	00E6	230	{	{		AE	пяť
ʌ	028C	652	V	V	V	AH	опяť
ə	0259	601	@	@	@	AX	точка
ɜ				\$=			точка
ɹ					7		лодка
u	0075	117	u	u	u	U	тут
ɯ	0289	649	}	}		YX	тюк
ʊ	028A	650	U	U		UH	укол
ɤ	028F	655	Y	Y		YH	новую
ɔ	0254	596	O	o	o	AO	хорошо, нос
œ	0153	339	9	9		OE	пёс
ɛ	025B	603	E	E	E	EH	этот
e	0065	101	e	e	e	E	лес
ə	0258	600	@\	l		EX	опыт
ɪ	0268	616	1	1	1	IX	бык
ɪ	026A	618	l	\$	l	IH	россии
i	0069	105	i	i	i	l	иди

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
ː					:	Ing	length mark

Syllable Symbol							
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	word boundary
						_ s	pause
						_ !	Sentence terminator
						_ ,	Sentence terminator
						_ .	Sentence terminator
						_ ?	Sentence terminator

Scottish English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p		P	pat
b	0062	98	b	b		B	bat
t	0074	116	t	t		T	tin
d	0064	100	d	d		D	din
k	006B	107	k	k		K	coat
g	0067	103	g	g		G	goat
tʃ	02A7	679	tS	tS		CH2	cheap
dʒ	02A4	676	dZ	dZ		JH2	jungle
f	0066	102	f	f		F	fat
v	0076	118	v	v		V	vat
θ	03B8	952	T	T		TH	thin
s	0073	115	s	s		S	sap
z	007A	122	z	z		Z	zap
ʃ	0283	643	S	S		SH	she
ʒ	0292	658	Z	Z		ZH	measure
m	006D	109	m	m		M	map
n	006E	110	n	n		N	nap
ŋ	006E 0329	110 809	n=	n=		N syl	certainly
w	0077	119	w	w		W	we
l	006C	108	l	l		L	left
r	0072	114	r	r		RR	run
h	0068	104	h	h		H	he
ŋ	014B	331	N	N		NG	ring
x	0078	120	x	x		X	loch
ð	00F0	240	D	D		DH	then

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j		J	yes

Vowel							
-------	--	--	--	--	--	--	--

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ə	0259	601	@	@		AX	about
ɹ	028F	655	Y	Y		YH	good
ɪ	026A	618	l	i		IH	it
a	0061	97	a	a		A	father
ʌ	028C	652	V	V		AH	cut
ɒ	0252	594	Q	Q		Q	not
ɜ	025C 032F	604 815	ɜ_^			ER nsy	their
ɛ	025B	603	E	e		EH	bed
ɑ:	0251 02D0	593 720	A:	A:		AA lng	are
ɔ:	0254 02D0	596 720	O:	O:		AO lng	ore
i:	0069 02D0	105 720	i:	i:		l lng	eat
ɜ:	025C 02D0	604 720	ɜ:	ɜ:		ER	bird
e:	0065 2D0	101 720	e:			E lng	day
o:	006F 2D0	111 720	o:			O lng	no
ɔɪ	0254 026A	596 618	OI	OI		OI	boy
ɒʌ	0250 0289	592 649	ɒ}			AEX YX	now
aɪ	0061 026A	97 618	al	al		AI	my

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'	'	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	lng	long mark
ˌ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_ &	word boundary
						_ s	pause

Syllable Symbol		
	_!	Sentence terminator
	_'	Sentence terminator
	_.	Sentence terminator
	_?	Sentence terminator

Slovak

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
b	0062	98	b	b	b	B	byť
c	0063	99	c	c	c	CT	loď
d	0064	100	d	d	d	D	domov
dz	02A3	675	dz	dz	dz	DZ2	hádzat
dʒ	02A4	676	dZ	dZ	dZ	JH2	džbán
f	0066	102	f	f	f	F	forma
g	0067	103	g	g	g	G	garáž
h	0266	614	h\	h\	h\	HZ	hlava
j	006A	106	j	j	j	J	jogurt
ɟ	025F	607	J\	J\	J\	JD	ďaleko
k	006B	107	k	k	k	K	koláč
l	006C	108	l	l	l	L	láska
ʎ	028E	654	L	L	L	LJ	ľad
m	006D	109	m	m	m	M	maslo
n	006E	110	n	n	n	N	noc
ɲ	0272	626	J	J	J	NJ	laň
ŋ	014B	331	N	N	N	NG	banka
p	0070	112	p	p	p	P	pavúk
r	0072	114	r	r	r	RR	robot
s	0073	115	s	s	s	S	slnko
ʃ	0283	643	S	S	S	SH	šach
t	0074	116	t	t	t	T	tulipán
ts	02A6	678	ts	ts	ts	TS2	cena
tʃ	02A7	679	tS	tS	x	CH	človek
v	0076	118	v	v	v	V	vzrast
w	0077	119	w	w	w	W	pravda
ɥ				u_^			pomocou
x	0078	120	x	x	x	X	chlieb
z	007A	122	z	z	z	Z	zima
ʒ	0292	658	Z	Z	Z	ZH	žena
θ	03B8	952	T	T	T	TH	think

Syllabic Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɹ̥	006C 0329	108 809	l=	l=	l=	L syl	vĭk
ɹ̥:	006C 0329 02D0	108 809 720	l:=	l:=	l:=	L lng syl	vĭča
ɹ̥	0072 0329	114 809	r=	r=	r=	RR syl	prst
ɹ̥:	0072 0329 02D0	114 809 720	r:=	r:=	r:=	RR lng syl	vĕrba

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	matka
e	0065	101	e	e	e	E	drevo
i	0069	105	i	i	i	I	tri
o	006F	111	o	o	o	O	dom
u	0075	117	u	u	u	U	ruža
ə	0259	601	@	@	@	AX	apple
æ				{			väzy

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:	a:	a:	a:	ráno
e:	0065 02D0	101 720	e:	e:	e:	e:	fén
i:	0069 02D0	105 720	i:	i:	i:	i:	písať
o:	006F 02D0	111 720	o:	o:	o:	o:	móda
u:	0075 02D0	117 720	u:	u:	u:	u:	úroda

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ia	0069 0061	105 97	ia	ia	ia	I A	piaty
ie	0069 0065	105 101	ie	ie	ie	I E	viera
iu	0069 028A	105 650	iu	iu	iu	I U	vyššiu
uo	0075 006F	117 111	uo	uo	uo	U O	stôl
iɛ				iE			viera

Syllable Phonetic Table

Syllable Symbol

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
ː	02D0	720	:	:	:	lng	long mark
ˑ	002E	46	|	|	\$	ˑ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator
						_?	Sentence terminator

South African English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pat
b	0062	98	b	b	b	B	bat
t	0074	116	t	t	t	T	tin
d	0064	100	d	d	d	D	din
k	006B	107	k	k	k	K	coat
g	0067	103	g	g	g	G	goat
tʃ	02A7	679	tS	tS	tS	CH2	cheap
dʒ	02A4	676	dZ	dZ	dZ	JH2	jungle
f	0066	102	f	f	f	F	fat
v	0076	118	v	v	v	V	vat
θ	03B8	952	T	T	T	TH	thin
ð	00F0	240	D	D	D	DH	then
s	0073	115	s	s	s	S	sin
z	007A	122	z	z	z	Z	zoo
ʃ	0283	643	S	S	S	SH	she
ʒ	0292	658	Z	Z	Z	ZH	measure
h	0068	104	h	h	h	H	he
m	006D	109	m	m	m	M	map
ɱ					m=		Wilsham
n	006E	110	n	n	n	N	nap
ɳ	006E 0329	110 809	n=		n=	N syl	couldn't
ŋ	014B	331	N	N	N	NG	ring
ɲ				J			Spanje
ɹ	0279	633	r\	r		RA	run
ɻ					r\`		wrong
l	006C	108	l	l	l	L	left
ɭ					l=		turtle
w	0077	119	w	w	w	W	we
j	006A	106	j	j	j	J	yes

Vowel

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɒ	0252	594	Q	Q	Q	Q	dog
æ	00E6	230	{	{	{	AE	cat
ɛ	025B	603	E	E	E	EH	bed
ɪ	026A	618	I	I	I	IH	bit
ʊ	028A	650	U	U	U	UH	hook
ʌ	028C	652	V	V	V	AH	cut
ə	0259	601	@	@	@	AX	about
ɑ				A			bak
e				e			beet
i				i			bied
o				o			boot
ɔ				O			bos
u				u			boek
Y				Y			bus
y				y			buur
ø				2			neus

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	far
i:	0069 02D0	105 720	i:	i:	i:	I Ing	free
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	more
u:	0075 02D0	117 720	u:	u:	u:	U Ing	do
ɜ:	025C 02D0	604 720	3:	3	3:	ER Ing	bird
ɛ:				E:			sê

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aI	aI	aI	AI	my
eɪ	0065 026A	101 618	eI	eI	eI	EI	day
ɔɪ	0254 026A	596 618	OI	OI	OI	OI	boy
aʊ	0061 028A	97 650	aU	aU	aU	AU	now
oʊ	006F 028A	111 650	oU			O UH	no
əʊ				@U	@U		nose

Diphthong							
ɛə	025B 0259	603 601	E@		E@	EHX	hair
eə				e@			stairs
ɪə	026A 0259	618 601	I@	I@	I@	IH AX	near
ʊə	028A 0259	650 601	U@	U@	U@	UH AX	tour
əi				@i			rein
œy				9y	9y		buit
œi				Yi			buit
eu				ew			eeu
œu				Yu			bout

xenophones							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a		A	Zikalala
r	0072	114	r	rr		RR	Bruyn
tʼ	0074 02BC	116 700	t_>			T ejc	Sontonga
kʼ	006B 02BC	107 700	k_>			K ejc	Mankayi
tʃʼ	02A7 02BC	679 700	tS_>			CH2 ejc	Tshekisho
tsʼ	02A6 02BC	678 700	ts_>			TS2 ejc	Motswaledi
pʼ	0070 02BC	112 700	p_>			P ejc	Sepedi
x	0078	120	x	x	x	X	Mogwadi
ɬ	026C	620	K		K	LSH	Hlabisa
kʼ	006B 0021 02BC	107 33 700	k!_>			K NCK ejc	
kllʼ	006B 01C1 02BC	107 449 700	k|\|\_>			K LCK ejc	
kllʰ	006B 01C1 02B0	107 449 688	k|\|\_h			K LCK asp	
ɡʰ	0067 030A 0021 02B0	103 778 33 688	g_0!_h			G vls NCK asp	
ŋʼ	014B 0021	331 33	N!\			NG NCK	
ŋʰ	014B 01C0 02B0	331 448 688	N|\_h			NG TCK asp	

Syllable Phonetic Table

Syllable Symbol

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	1	primary stress
ˌ	02CC	716	%	%	%	2	secondary stress
:			:	:	:		long mark
.	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary
						_	pause
						!	Sentence terminator
						,	Sentence terminator
						.	Sentence terminator
						?	Sentence terminator

Spanish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	padre
b	0062	98	b	b	b	b	barista
t	0074	116	t	t	t	t	tomo
d	0064	100	d	d	d	d	donde
k	006B	107	k	k	k	k	casa
g	0067	103	g	g	g	g	gato
tʃ	02A7	679	tS	tS	tS	ch	mucho
f	0066	102	f	f	f	f	fácil
β	03B2	946	B	B	B	b x	cabo
θ	03B8	952	T	T	T	th	cinco
ð	00F0	240	D	D	D	d x	nada
s	0073	115	s	s	s	s	sala
z	007A	122	z	z		s s	mismo
x	0078	120	x	x	x	x	mujer
ɣ	0263	611	G	G	G	g x	luego
m	006D	109	m	m	m	m	mismo
n	006E	110	n	n	n	n	nunca
ɲ	014B	331	N	N		n g	tango
ɲ	0272	626	J	J	J	nj	año
l	006C	108	l	l	l	l	lejos
ʎ	028E	654	L	L	L	ll	caballo
ɟ	029D	669	jj	jj	j\	jj	mayo
r	027E	638	4	r	4	r	puro
r	0072	114	r	rr		rr	torre
r:					r:		carro
ɟʝ	02A4	676	dZ		dZ	j x	joy
ʃ	0283	643	S			s x	she
v	0076	118	v			b f	voice

Semi Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example

Semi Vowel							
j	006A	106	j	j	j	j	pie
w	0077	119	w	w	w	w	fuego

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	a	valle
e	0065	101	e	e	e	e	pero
i	0069	105	i	i	i	i	pico
o	006F	111	o	o	o	o	toro
u	0075	117	u	u	u	u	duro
ʌ	028C	652	V			e o	run
ə	0259	601	@			a x	about
ɜ:	025C 02D0	604 720	3:			e r	bird

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	1	primary stress
ˌ	02CC	716	%	%	%	2	secondary stress
:			:	:	:		long mark
ˑ	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary
						-	pause
						!	Sentence terminator
						,	Sentence terminator
						.	Sentence terminator
						?	Sentence terminator

Swedish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
b	0062	98	b	b	b	B	bok
ɐ	0255	597	s\	s\	s\	SC	kjol
d	0064	100	d	d	d	D	dop
ɖ	0256	598	d`	rd	d`	DR	nord
f	0066	102	f	f	f	F	fot
g	0067	103	g	g	g	G	god
h	0068	104	h	h	h	H	hot
ɸ	0267	615	x\	x\	x\	SHX	sjok
j	006A	106	j	j	j	J	jord
k	006B	107	k	k	k	K	kon
l	006C	108	l	l	l	L	lov
ɭ	026D	621	l`	rl	l`	LR	kärl
m	006D	109	m	m	m	M	mod
n	006E	110	n	n	n	N	nod
ɳ	0273	627	n`	rn	n`	NR	barn
ŋ	014B	331	N	N	N	NG	lång
p	0070	112	p	p	p	P	pol
r	0072	114	r	r	r	RR	rov
s	0073	115	s	s	s	S	söt
ʂ	0282	642	s`	rs	s`	SR	torsdag
t	0074	116	t	t	t	T	tok
ɸ	0288	648	t`	rt	t`	TR	parti
v	0076	118	v	v	v	V	våt
w	0077	119	w	w	w	W	webb
ʃ	0283	643	S		S	SH	slash
ʃ				S			sjok
ɖʒ	02A4	676	dZ	dZ	dZ	JH2	image
ɸʃ	02A7	679	tS	tS	tS	CH2	touch
θ	03B8	952	T	T	T	TH	think
z	007A	122	z	z	z	Z	zig-zag
ð	00F0	240	D	D	D	DH	this

Consonant							
				p_h			pil
				t_h			till
				k_h			kal
				rt_h			berthén
				?			1a

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop.↵

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	matt
ɛ	025B	603	E	E	E	EH	häll
æ	00E6	230	{	{	{	AE	ärt
ə	0259	601	@	@	@	AX	svallisen
ɪ	026A	618	l	l	l	IH	sill
ɔ	0254	596	O	O	O	AO	moll
ø	00F8	248	2	2	2	EU	nött
œ	0153	339	9	9	9	OE	härför
ø	0275	629	8	8	8	OX	full
ɘ				u			buss
ʊ	028A	650	U	U	U	UH	bott
ɤ	028F	655	Y	Y	Y	YH	syll
ʌ	028C	652	V	V	V	AH	cut

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:	A:	A:	AA Ing	mat
ɛ:	025B 02D0	603 720	E:	E:	E:	EH Ing	häl
e:	0065 02D0	101 720	e:	e:	e:	E Ing	hel
æ:	00E6 02D0	230 720	ɸ:	ɸ:	ɸ:	AE Ing	ära
i:	0069 02D0	105 720	i:	i:	i:	I Ing	sil
o:	006F 02D0	111 720	o:	o:	o:	O Ing	mål

Long Vowel							
œ:	0153 02D0	339 720	9:	9:	9:	OE Ing	öra
ø:	00F8 02D0	248 720	2:	2:	2:	EU Ing	nöt
ʘ:	0289 02D0	649 720	ʝ:	ʝ:	ʝ:	YX Ing	ful
u:	0075 02D0	117 720	u:	u:	u:	U Ing	bot
y:	0079 02D0	121 720	y:	y:	y:	Y Ing	syl
ɜ:	025C 02D0	604 720	ɜ:	ɜ:	ɜ:	ER	higher

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aʊ	0061 028A	97 650	aU	aU	aU	AU	aula
e:u				e:u	eU		europé
au				au			aula
aɪ	0061 026A	97 618	aI	aI	aI	AI	White
eɪ	0065 026A	101 618	eI	eI	eI	EI	Nature
ɔɪ	0254 026A	596 618	OI	OI	OI	OI	Aloisia
oʊ	006F 028A	111 650	oU	oU	oU	O UH	Gould

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1 T1	primary stress (Tone1)
ˊ	0060	96	ˊˊ	ˊˊ	ˊˊ	S1 T2	primary stress (Tone2)
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:	:	:	Ing	long mark
.	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator
						_.	Sentence terminator

Syllable Symbol		
	_.	Sentence terminator
	_?	Sentence terminator

Taiwanese Mandarin

Symbolic Phonetic Table

The table below shows Chinese pinyin.

Part 1												
		Final										
		a	o	e	i	u	v	er	ai	ao	ou	un
Initial	-	a	o	e	-	-	-	er	ai	ao	ou	-
	b	ba	bo	-	bi	bu	-	-	bai	bao	-	-
	p	pa	po	-	pi	pu	-	-	pai	pao	pou	-
	m	ma	mo	-	mi	mu	-	-	mai	mao	mou	-
	f	fa	fo	-	-	fu	-	-	-	-	fou	-
	d	da	-	de	di	du	-	-	dai	dao	dou	dun
	t	ta	-	te	ti	tu	-	-	tai	tao	tou	tun
	n	na	-	ne	ni	nu	nv	-	nai	nao	nou	-
	l	la	-	le	li	lu	lv	-	lai	lao	lou	lun
	g	ga	-	ge	-	gu	-	-	gai	gao	gou	gun
	k	ka	-	ke	-	ku	-	-	kai	kao	kou	kun
	h	ha	-	he	-	hu	-	-	hai	hao	hou	hun
	j	-	-	-	ji	ju	-	-	-	-	-	jun
	q	-	-	-	qi	qu	-	-	-	-	-	qun
	x	-	-	-	xi	xu	-	-	-	-	-	xun
	zh	zha	-	zhe	zhi	zhu	-	-	zhai	zhao	zhou	zhun
	ch	cha	-	che	chi	chu	-	-	chai	chao	chou	chun
	sh	sha	-	she	shi	shu	-	-	shai	shao	shou	shun
	r	-	-	re	ri	ru	-	-	-	rao	rou	run
	z	za	-	ze	zi	zu	-	-	zai	zao	zou	zun
c	ca	-	ce	ci	cu	-	-	cai	cao	cou	cun	
s	sa	-	se	si	su	-	-	sai	sao	sou	sun	
y	ya	yo	ye	yi	yu	-	-	yai	yao	you	yun	
w	wa	wo	-	-	wu	-	-	wai	-	-	-	

Part 2												
		Final										
		ei	ia	ie	iu	iao	ua	uo	ui	uai	ue	uan
Initial	-	ei	-	-	-	-	-	-	-	-	-	-
	b	bei	-	bie	-	biao	-	-	-	-	-	-

	p	pei	-	pie	-	piao	-	-	-	-	-	-
	m	mei	-	mie	miu	miao	-	-	-	-	-	-
	f	fei	-	-	-	-	-	-	-	-	-	-
	d	dei	-	die	diu	diao	-	duo	dui	-	-	duan
	t	tei	-	tie	-	tiao	-	tuo	tui	-	-	tuan
	n	nei	-	nie	niu	niao	-	nuo	-	-	nue	nuan
	l	lei	lia	lie	liu	liao	-	luo	-	-	lue	luan
	g	gei	-	-	-	-	gua	guo	gui	guai	-	guan
	k	kei	-	-	-	-	kua	kuo	kui	kuai	-	kuan
	h	hei	-	-	-	-	hua	huo	hui	huai	-	huan
	j	-	jia	jie	jiu	jiao	-	-	-	-	jue	juan
	q	-	qia	qie	qiu	qiao	-	-	-	-	que	quan
	x	-	xia	xie	xiu	xiao	-	-	-	-	xue	xuan
	zh	-	-	-	-	-	zhua	zhuo	zhui	zhuai	-	zhuan
	ch	-	-	-	-	-	-	chuo	chui	chuai	-	chuan
	sh	shei	-	-	-	-	shua	shuo	shui	shuai	-	shuan
	r	-	-	-	-	-	-	ruo	rui	-	-	ruan
	z	zei	-	-	-	-	-	zuo	zui	-	-	zuan
	c	-	-	-	-	-	-	cuo	cui	-	-	cuan
	s	-	-	-	-	-	-	suo	sui	-	-	suan
	y	-	-	-	-	-	-	-	-	-	yue	yuan
	w	wei	-	-	-	-	-	-	-	-	-	-

Part 3

		Final										
		an	ang	ong	en	eng	in	ing	ian	iang	iong	uang
Initial	-	an	ang	-	en	-	-	-	-	-	-	-
	b	ban	bang	-	ben	beng	bin	bing	bian	-	-	-
	p	pan	pang	-	pen	peng	pin	ping	pian	-	-	-
	m	man	mang	-	men	meng	min	ming	mian	-	-	-
	f	fan	fang	-	fen	feng	-	-	-	-	-	-
	d	dan	dang	dong	-	deng	-	ding	dian	-	-	-
	t	tan	tang	tong	-	teng	-	ting	tian	-	-	-
	n	nan	nang	nong	nen	neng	nin	ning	nian	niang	-	-
	l	lan	lang	long	-	leng	lin	ling	lian	liang	-	-
	g	gan	gang	gong	gen	geng	-	-	-	-	-	guang
	k	kan	kang	kong	ken	keng	-	-	-	-	-	kuang
	h	han	hang	hong	hen	heng	-	-	-	-	-	huang

j	-	-	-	-	-	jin	jing	jian	jiang	jiong	-
q	-	-	-	-	-	qin	qing	qian	qiang	qiong	-
x	-	-	-	-	-	xin	xing	xian	xiang	xiong	-
zh	zhan	zhang	zhong	zhen	zheng	-	-	-	-	-	zhuang
ch	chan	chang	chong	chen	cheng	-	-	-	-	-	chuang
sh	shan	shang	-	shen	sheng	-	-	-	-	-	shuang
r	ran	rang	rong	ren	reng	-	-	-	-	-	-
z	zan	zang	zong	zen	zeng	-	-	-	-	-	-
c	can	cang	cong	cen	ceng	-	-	-	-	-	-
s	san	sang	song	sen	seng	-	-	-	-	-	-
y	yan	yang	yong	-	-	yin	ying	-	-	-	-
w	wan	wang	-	wen	weng	-	-	-	-	-	-

The table below is a group of phonetic representations and examples of Taiwanese Mandarin synthesizer.

Chinese Consonant				
IPA	Unicode	Decimal	SAMPA	Example
p	0070	112	p	bo
p ^h	0070 02B0	112 688	p_h	po
m	006D	109	m	mo
f	0066	102	f	fo
t	0074	116	t	de
t ^h	0074 02B0	116 688	t_h	te
n	006E	110	n	ne
l	006C	108	l	le
tʂ	0074 0282	116 642	ts`	zhi
ts	0074 0073	116 115	ts	zi
tʂ ^h	0074 0282 02B0	116 642 688	ts`_h	chi
ts ^h	0074 0073 02B0	116 115 688	ts_h	ci
ʂ	0282	642	s`	shi
s	0073	115	s	si
ʐ	0290	656	z`	ri
tʂ	02A8	680	ts\	ji
tʂ ^h	02A8 02B0	680 688	ts_h	qi
ʐ	0255	597	s\	xi
k	006B	107	k	ge
k ^h	006B 02B0	107 688	k_h	ke

Chinese Consonant				
x	0078	120	x	he
w	0077	119	w	wa
j	006A	106	j	ya
ɥ	0265	613	H	yue
ŋ	014B	331	N	ang

Chinese Vowel				
IPA	Unicode	Decimal	SAMPA	Example
a	0061	97	a	ba
o	006F	111	o	po
ə	0259	601	@	de
aɪ	0061 026A	97 618	aI	kai
aʊ	0061 028A	97 650	aU	dao
əʊ	0259 028A	601 650	@U	tou
eɪ	0065 026A	101 618	eI	fei
i	0069	105	i	xi
ɨ	0268	616	1	zhi
u	0075	117	u	zhu
y	0079	121	y	yu
ɛ	025B	603	E	jie
ə̃	025A	602	@`	er

English Consonant				
IPA	Unicode	Decimal	SAMPA	Example
p	0070	112	p	pen
b	0062	98	b	but
t	0074	116	t	two
d	0064	100	d	do
tʃ	02A7	679	tS	chair
dʒ	02A4	676	dZ	joy
k	006B	107	k	cat
g	0067	103	g	get
f	0066	102	f	fool
v	0076	118	v	voice
θ	03B8	952	T	think
ð	00F0	240	D	this
s	0073	115	s	see

English Consonant				
z	007A	122	z	zoo
ʃ	0283	643	S	she
ʒ	0292	658	Z	pleasure
h	0068	104	h	ham
m	006D	109	m	man
n	006E	110	n	no
ŋ	014B	331	N	ring
l	006C	108	l	left
r	0279	633	r\	wrong
j	006A	106	j	yes
w	0077	119	w	we

English Monophthong				
IPA	Unicode	Decimal	SAMPA	Example
ɒ	0252	594	Q	not
æ	00E6	230	{	cat
e	0065	101	e	pet
ɪ	026A	618	I	city
ʊ	028A	650	U	put
ʌ	028C	652	V	run
ə	0259	601	@	about
ɒ	0252	594	Q	not

English Vowel				
IPA	Unicode	Decimal	SAMPA	Example
ɑ:	0251 02D0	593 720	A:	father
i:	0069 02D0	105 720	i:	see
ɔ:	0254 02D0	596 720	O:	law
u:	0075 02D0	117 720	u:	soon
ɜ:	025C 02D0	604 720	3:	bird

English Diphthong				
IPA	Unicode	Decimal	SAMPA	Example
aɪ	0061 026A	97 618	aI	rise
eɪ	0065 026A	101 618	eI	raise
ɔɪ	0254 026A	596 618	OI	noise
aʊ	0061 028A	97 650	aU	rouse
əʊ	0259 028A	601 650	@U	nose

English Diphthong				
eə	0065 0259	101 601	e@	stairs
ɪə	026A 0259	618 601	l@	fear
ʊə	028A 0259	650 601	U@	cure

Syllable Phonetic Table

Below mentioned syllable symbols could be used with phonetic representation.

Chinese Tone Symbols				
IPA	Unicode	Decimal	SAMPA	Definition
˥	02E5 02E5	741 741	_1	Tone 1
˧	02E7 02E5	743 741	_2	Tone 2
˨˥	02E8 02E9 02E6	744 745 742	_3	Tone 3
˨˩	02E5 02E9	741 745	_4	Tone 4
˥˩	02E7 02E7	743 743	_0	Neutral Tone

English Syllable Symbols				
IPA	Unicode	Decimal	SAMPA	Definition
ˈ	02C8	712	'	primary stress
ˌ	02CC	716	%	secondary stress
ː	02D0	720	:	long mark
ˑ	002E	46	|	syllable boundary

Thai

Symbolic Phonetic Table

* Please note that the positions of the phoneme symbols cannot be highlighted for the language's characteristics.

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	ป
p ^h	0070 02B0	112 688	p_h	ph	p_h	P asp	พ
b	0062	98	b	b	b	B	บ
t	0074	116	t	t	t	T	ต
t ^h	0074 02B0	116 688	t_h	th	t_h	T asp	ท
d	0064	100	d	d	d	D	ด
ts	02A8	680	ts\			CC2	จ
c				c	tS		จ
ts ^h	02A8 02B0	680 688	ts_h			CC2 asp	ช
ch				ch	tS_h		ช
k	006B	107	k	k	k	K	ก
k ^h	006B 02B0	107 688	k_h	kh	k_h	K asp	ค
ʔ	0294	660	ʔ	ʔ	ʔ	GT	อ
f	0066	102	f	f	f	F	ฟ
s	0073	115	s	s	s	S	ส
h	0068	104	h	h	h	H	ห
l	006C	108	l	l	l	L	ล
r	0072	114	r	r	4	RR	ร
m	006D	109	m	m	m	M	ม
n	006E	110	n	n	n	N	น
ŋ	014B	331	N	N	N	NG	ง
ʃ	0283	643	S			SH	she
v	0076	118	v			V	voice
z	007A	122	z			Z	zoo

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	ย
w	0077	119	w	w	w	W	ว

Single Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a	a	A	ห้า
e	0065	101	e	e	e	E	เปิด
i	0069	105	i	i	i	I	ปิด
o	006F	111	o	o	o	O	มด
u	0075	117	u	u	u	U	จุด
ɛ	025B	603	E	E	E	EH	แกะ
ɔ	0254	596	O	O	O	AO	เงาะ
ɹ	0264	612	7		7	OU	เจอะ
ə				@			เจอะ
ʉ	026F	623	M	M	M	UU	ยัด

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:	a:	a:	A Ing	หาด
e:	0065 02D0	101 720	e:	e:	e:	E Ing	เทศน์
i:	0069 02D0	105 720	i:	i:	i:	I Ing	ปีก
o:	006F 02D0	111 720	o:	o:	o:	O Ing	โหมก
u:	0075 02D0	117 720	u:	u:	u:	U Ing	ดูด
ɛ:	025B 02D0	603 720	E:	E:	E:	EH Ing	แทน
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	งอ
ɹ:	0264 02D0	612 720	7:		7:	OU Ing	เจอ
ə:				@:			เจอ
ʉ:	026F 02D0	623 720	M:	M:	M:	UU Ing	มิด

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ia	0069 0061	105 97	ia	ia	ia	IA	เลีย
ua	0075 0061	117 97	ua	ua	ua	UA	ตัว
ʉa	026F 0061	623 97	Ma	Ma	Ma	UUA	เสื่อ
i:a	0069 02D0 0061	105 720 97	i:a			I Ing A	เมีย
u:a	0075 02D0 0061	117 720 97	u:a			U Ing A	มัว
ʉ:a	026F 02D0 0061	623 720 97	M:a			UU Ing A	เสื่อ

Syllable Phonetic Table

Tone							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
1	0304	772	_M	_1	_M	T3	ค่า
2	0300	768	_L	_2	_L	T2	ชา
3	0302	770	_F	_3	_F	T4 T2	ค่า
4	0301	769	_H	_4	_H	T4	ค่า
5	030C	780	_R	_5	_R	T2 T4	ชา

Turkish

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	ip
b	0062	98	b	b	b	B	balık
t	0074	116	t	t	t	T	ütü
d	0064	100	d	d	d	D	dede
k	006B	107	k	k	k	K	akıl
g	0067	103	g	g	g	G	karga
c	0063	99	c	c	c	CT	kedi
ç	025F	607	ç\	g'	ç\	JD	genç
m	006D	109	m	m	m	M	dam
n	006E	110	n	n	n	N	anı
ŋ	014B	331	N	N	N	NG	süngü
f	0066	102	f	f	f	F	fare
v	0076	118	v	v	v	V	ekvator
s	0073	115	s	s	s	S	ses
z	007A	122	z	z	z	Z	azık
ş	0283	643	S	S	S	SH	aşı
z	0292	658	Z	Z	Z	ZH	müjde
h	0068	104	h	h	h	H	hasta
ğ	0263	611	G	G	G	GH	sağır
tʃ	02A7	679	tʃ	tʃ	tʃ	CH2	seçim
dʒ	02A4	676	dʒ	dʒ	dʒ	JH2	cam
ɫ	026B	619	5	5		L vel	hala
r	027E	638	4		4	DX	durum
r				r			durum
ɾ					r`_0		var
l	006C	108	l	l	l	L	lale
j	006A	106	j	j	j	J	yat
w	0077	119	w	w	w	W	tavuk
				R			kar
ʔ				ʔ	ʔ		1aslı

Consonant							
θ	03B8	952	T	T	T	TH	think
ð	00F0	240	D	D	D	DH	this

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop, ʔ

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ä	0061 0308	97 776	a_ʔ ¹			A cen	hâlâ
ɑ	0251	593	A	A	A	AA	adam
a	0061	97	a	a	a	A	adam
e	0065	101	e	e	e	E	keçi
ɛ	025B	603	E		E	EH	dede
æ	00E6	230	{	{	{	AE	özlem
i	0069	105	i	i	i	I	kil, bir
o	006F	111	o	o	o	O	kol
ø	00F8	248	2	2	2	EU	göl
u	0075	117	u	u	u	U	kul
ʊ	026F	623	M	1	M	UU	kıl
y	0079	121	y	y	y	Y	kül
ə	0259	601	@	@	@	AX	sir
ʌ	028C	652	V	V	V	AH	cut

1. The sampa symbol is a_ "but is replaced by a_ʔ

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ä:	0061 0308 02D0	97 776 720	a_ʔ ¹			A cen lng	kâğıda
a:	0061 02D0	97 720	a:	a:	a:	A lng	ağacı
ø:	00F8 02D0	248 720	2:	2:	2:	EU lng	göğe
e:	0065 02D0	101 720	e:	e:	e:	E lng	ayçiçeği
i:	0069 02D0	105 720	i:	i:	i:	I lng	balığ
o:	006F 02D0	111 720	o:	o:	o:	O lng	bloğa
u:	0075 02D0	117 720	u:	u:	u:	U lng	doruğa
ʊ:	026F 02D0	623 720	M:	1:	M:	UU lng	findığa
y:	0079 02D0	121 720	y:	y:	y:	Y lng	gördüğü

Long Vowel							
ɜ:	025C 02D0	604 720	3:	3:	3:	ER	bird

1. The sampa symbol is a_":but is replaced by a_':.ء

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aʊ	0061 028A	97 650	aU	aU	aU	AU	about
oʊ	006F 028A	111 650	oU	oU	oU	O UH	nose
aɪ	0061 026A	97 618	aI	aI	aI	AI	my
eɪ	0065 026A	101 618	eI	eI	eI	EI	day
ɔɪ	0254 026A	596 618	OI	OI	OI	OI	boy
eə	0065 0259	101 601	e@	e@	e@	E AX	hair
ɪə	026A 0259	618 601	I@	I@	I@	IH AX	near
ʊə	028A 0259	650 601	U@	U@	U@	UH AX	tour

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ː	02D0	720	ː		ː	lng	long mark
ˌ	002E	46	|	|	\$	ˌ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator
						_?	Sentence terminator

UK English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	pen
b	0062	98	b	b	b	B	but
t	0074	116	t	t	t	T	two
d	0064	100	d	d	d	D	do
tʃ	02A7	679	tS	tS	tS	CH2	chair
dʒ	02A4	676	dZ	dZ	dZ	JH2	joy
k	006B	107	k	k	k	K	cat
g	0067	103	g	g	g	G	get
ɣ				G			Taigh
f	0066	102	f	f	f	F	fool
v	0076	118	v	v	v	V	voice
θ	03B8	952	T	T	T	TH	think
ð	00F0	240	D	D	D	DH	this
s	0073	115	s	s	s	S	see
z	007A	122	z	z	z	Z	zoo
ʃ	0283	643	S	S	S	SH	she
ʒ	0292	658	Z	Z	Z	ZH	pleasure
h	0068	104	h	h	h	H	ham
x				x	x		loch
ɬ					K		Llantilio
m	006D	109	m	m	m	M	man
ɱ				=m	m=		Wilsham
n	006E	110	n	n	n	N	no
ɳ				=n	n=		morten
ŋ	014B	331	N	N	N	NG	ring
l	006C	108	l	l	l	L	left
ɭ				=l	l=		turtle
ɹ	0279	633	r\			RA	run, wrong
ɻ					r\`		wrong
r				r			wrong

Consonant							
j	006A	106	j	j	j	J	yes
w	0077	119	w	w	w	W	we

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɒ	0252	594	Q	Q	Q	Q	not
æ	00E6	230	{	{	{	AE	cat
e	0065	101	e	e		E	bed
ɛ					E		pet
ɪ	026A	618	l	l	l	IH	city
i	0069	105	i			I	happy
ʊ	028A	650	U	U	U	UH	put
u	0075	117	u			U	influenza
ʌ	028C	652	V	V	V	AH	run
ə	0259	601	@	@	@	AX	about
a				a			Llan

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	0251 02D0	593 720	A:	A	A:	AA Ing	father
i:	0069 02D0	105 720	i:	i	i:	I Ing	see
ɔ:	0254 02D0	596 720	O:	O	O:	AO Ing	law
u:	0075 02D0	117 720	u:	u	u:	U Ing	soon
ɜ:	025C 02D0	604 720	3:	3	3:	ER Ing	bird

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	al	al	al	AI	rise
eɪ	0065 026A	101 618	el	el	el	EI	raise
ɔɪ	0254 026A	596 618	OI	OI	OI	OI	noise
aʊ	0061 028A	97 650	aU	aU	aU	AU	rouse
əʊ	0259 028A	601 650	@U	@U	@U	AX UH	nose
eə	0065 0259	101 601	e@	e@		EHX	stairs
ɛə					E@		stairs
ɪə	026A 0259	618 601	l@	l@	l@	IYX	fear
ʊə	028A 0259	650 601	U@	U@	U@	UWX	cure

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
:	02D0	720	:		:	lng	long mark
ˑ	002E	46	|	|	\$	ˑ	syllable boundary
space	0020	32	space	space	#	_&	word boundary
						_s	pause
				*			nuclear stress
						_!	Sentence terminator
						_’	Sentence terminator
						_˙	Sentence terminator
						_?	Sentence terminator

US English

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	p	pen
b	0062	98	b	b	b	b	but
t	0074	116	t	t	t	t	two
ɸ					t_v		butter
d	0064	100	d	d	d	d	do
tʃ	02A7	679	tS	tS	tS	ch	chair
dʒ	02A4	676	dZ	dZ	dZ	jh	joy
k	006B	107	k	k	k	k	cat
g	0067	103	g	g	g	g	get
f	0066	102	f	f	f	f	fool
v	0076	118	v	v	v	v	voice
θ	03B8	952	T	T	T	th	think
ð	00F0	240	D	D	D	dh	this
s	0073	115	s	s	s	s	see
z	007A	122	z	z	z	z	zoo
ʃ	0283	643	S	S	S	sh	she
ʒ	0292	658	Z	Z	Z	zh	pleasure
h	0068	104	h	h	h	h	ham
ɸ					K		Llantilio
m	006D	109	m	m	m	m	man
ɱ					m=		Wilsham
n	006E	110	n	n	n	n	no
ɳ					n=		morten
ŋ	014B	331	N	N	N	ng	ring
l	006C	108	l	l	l	l	left
ɭ					l=		turtle
ɹ	0279	633	r\			r	run
ɻ					r`		wrong
r				r			wrong
ʀ				ʀ			¹ the egg

Consonant							
j	006A	106	j	j	j	y	yes
w	0077	119	w	w	w	w	we

1. ¹ Glottal stop cannot be displayed in an example word. And our engine ignores the glottal stop, ʔ

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ	0251	593	A	A	A	aa	bob
æ	00E6	230	{	{	{	ae	cat
ɛ	025B	603	E	E	E	eh	bed
ɪ	026A	618	I	I	I	ih	city
i	0069	105	i	i	i	iy	see
ɔ	0254	596	O	O	O	ao	law
ʊ	028A	650	U	U	U	uh	put
u	0075	117	u	u	u	uw	soon
ʌ	028C	652	V	V	V	ah	run
ə	0259	601	@	@	@	ax	about
ə̃	025A	602	@`	@r		er	butter
ɝ				@r			bird
ɜ					3:		curry
ɜ̃					3:`		fur

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	al	al	al	ay	rise
eɪ	0065 026A	101 618	el	e	el	ey	raise
ɔɪ	0254 026A	596 618	OI	OI	OI	oy	noise
aʊ	0061 028A	97 650	aU	aU	aU	aw	rouse
oʊ	006F 028A	111 650	oU	o	oU	ow	nose

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'	'	'	1	primary stress

Syllable Symbol							
.	02CC	716	%	%	%	2	secondary stress
:					:		long mark
.	002E	46	|	|	\$	-	syllable boundary
space	0020	32	space	space	#	&	word boundary
						_	pause
				*			nuclear stress
						!	Sentence terminator
						,	Sentence terminator
						.	Sentence terminator
						?	Sentence terminator

Vietnamese

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p			P	tiếp
b	0253	595	b_<			BIM	ba
t	0074	116	t			T	tây
t ^h	0074 02B0	116 688	t_h			T asp	thầy
t̚	0288	648	t`			TR	tra
d̚	0257	599	d_<			DIM	đi
c	0063	99	c			CT	chẻ
k	006B	107	k			K	cô
ɣ	0263	611	G			GH	ga
f	0066	102	f			F	phở
v	0076	118	v			V	về
s	0073	115	s			S	xa
z	007A	122	z			Z	già
ʃ	0282	642	s`			SR	sáu
m	006D	109	m			M	mai
n	006E	110	n			N	nam
ɲ	0272	626	J			NJ	nhà
ŋ	014B	331	N			NG	ngâm
l	006C	108	l			L	là
x	0078	120	x			X	khô
h	0068	104	h			H	hàng
ʀ	0279	633	r\			RA	ra

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j			J	cái
w	0077	119	w			W	quanh

Single Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a			A	ăn

Single Vowel							
e	0065	101	e			E	về
i	0069	105	i			I	khi
o	006F	111	o			O	cô
u	0075	117	u			U	ru
ɛ	025B	603	E			EH	xe
ɔ	0254	596	O			AO	gió
ɨ	0268	616	1			IX	tư
ə	0259	601	@			AX	ân

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:			A lng	ba
ɔ:	0254 02D0	596 720	O:			AO lng	xoong
ə:	0259 02D0	601 720	@:			AX lng	bơ

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
iə	0069 0259	105 601	i@			IYX	viên
ɨə	0268 0259	616 601	1@			IX AX	xương
uə	0075 0259	117 601	u@			UWX	uống

Syllable Phonetic Table

Tone							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ˉ	0304	772	_M			T3	ba
ˊ	0301	769	_H			T4	bá
ˋ	0300	768	_L			T2	bà
ˊˋ	030C	780	_R			T2 T4	bả
ˊˊ	030B	779	_T			T5	bã
ˋˋ	030F	783	_B			T1	bạ

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
:	02D0	720	:			lng	long mark
.	002E	46	|			.	syllable boundary

Syllable Symbol							
space	0020	32	space			_&	word boundary
	0023	35				_s	pause
						_!	Sentence terminator
						_'	Sentence terminator
						_.	Sentence terminator
						_?	Sentence terminator

Welsh

Symbolic Phonetic Table

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p			P	Pump
b	0062	98	b			B	Baban
t	0074	116	t			T	Tegan
d	0064	100	d			D	Deg
k	006B	107	k			K	Cant
g	0067	103	g			G	Gadael
m	006D	109	m			M	Mae
n	006E	110	n			N	Naw
ŋ	014B	331	N			NG	Argyfwng
f	0066	102	f			F	Ffacs
s	0073	115	s			S	Saith
v	0076	118	v			V	Prawf
θ	03B8	952	T			TH	Aberth
ð	00F0	240	D			DH	Deuddeg
ʎ	026C	620	K			LSH	Llan
ʝ	0283	643	S			SH	Siawns
χ	03C7	967	X			QH	Chwech
h	0068	104	h			H	Haearn
r	0072	114	r			RR	Garw
l	006C	108	l			L	Lan
j	006A	106	j			J	Astudio
w	0077	119	w			W	Rhagweld
tʃ	02A7	679	tS			CH2	Cytsain
dʒ	02A4	676	dZ			JH2	Garej
z	007A	122	z			Z	Aids

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a			A	Acen
ɛ	025B	603	E			EH	Pedwar
i	0069	105	i			I	Joci

Vowel							
ɪ	026A	618	I			IH	Miliwn
ɔ	0254	596	O			AO	Oddieithr
ʊ	028A	650	U			UH	Acwstig
ə	0259	601	@			AX	Ychwaneg

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a:	0061 02D0	97 720	a:			A Ing	Mab
e:	0065 02D0	101 720	e:			E Ing	Peth
i:	0069 02D0	105 720	i:			I Ing	Tri
o:	006F 02D0	111 720	o:			O Ing	Oddi
u:	0075 02D0	117 720	u:			U Ing	Cwch

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ai	0061 0069	97 105	ai			AI	Dau
au	0061 0075	97 117	au			AU	Awdur
ɛi	025B 0069	603 105	Ei			EI	Beic
ɛu	025B 0075	603 117	Eu			EH U	Addewch
ɪu	026A 0075	618 117	IU			IH UH	Unigryw
ɔi	0254 0069	596 105	Oi			OI	Troi
ɔu	0254 0075	596 117	Ou			AO U	Rownd
ʊi	028A 0069	650 105	Ui			UH I	Wyth

Syllable Phonetic Table

Syllable Symbol							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	'			S1	primary stress
ˌ	02CC	716	%			S2	secondary stress
:	02D0	720	:			Ing	long mark

Syllable Symbol							
.	002E	46	|			.	syllable boundary
space	0020	32	space			_&	Word boundary
						_s	pause
						!	sentence terminator
						,	sentence terminator
						.	sentence terminator
						?	sentence terminator