



ReadSpeaker Phonetic Symbol Tables

Reference Guide

Version 1.7, July 16, 2021

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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 TableSyllable Symbols Table
2019-12 (v1.1)	<ul style="list-style-type: none">Symbolic Phonetic Tables	<ul style="list-style-type: none">Argentinian Spanish language addedIndian English language addedSwedish 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 addedPolish language addedDutch 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 addedArabic language addedGerman 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 addedHungarian 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 addedFinnish language addedTurkish language added
2021-04 (v1.6)	<ul style="list-style-type: none">Symbolic Phonetic Tables	<ul style="list-style-type: none">Danish language addedLatvian language added
2021-07 (v1.7)	<ul style="list-style-type: none">Symbolic Phonetic Tables	<ul style="list-style-type: none">Belgian Dutch (Flemish) tables edited

Arabic

Symbolic Phonetic Table

* This language cannot be bolded in spelling.

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
X					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
ʀ					R		عَرَق
ɾ					ɹ		مَرَاة
ʔ	0294	660	ʔ	ʔ	ʔ	GT	أكل
θ	03B8	952	T	T	T	TH	ثلاث
ð	00F0	240	D	D	D	DH	ذكر
ʒ	0292	658	Z			ZH	جميل
dʒ				dZ			جامع
ʒ					z\		جراج
q	0071	113	q	q	q	QT	قلب
ɣ	0263	611	G	G		GH	غرب
ʔ	026B	619	ʔ			L vel	ظلال

Consonant							
ل				l_?			الله
ħ	0127	295	X\	X\	X\	HH	حلم
ʕ	0295	661	?\	?\	?\	HG	علم
tʕ	0074 02E4	116 740	t_?\	t_?		T phr	طابع
t					t_?\		طابع
dʕ	0064 02E4	100 740	d_?\	d_?		D phr	ضرب
d					d_?\		ضرب
ðʕ	00F0 02E4	240 740	D_?\	D_?		DH phr	ظلام
ð					D_?\		ظلام
sʕ	0073 02E4	115 740	s_?\	s_?		S phr	صغير
s					s_?\		صغير
zʕ	007A 02E4	122 740	z_?\			Z phr	
tʃ	02A7	679	tS			CH2	chair
dʒ	02A4	676	dZ			JH2	joy
ŋ	014B	331	N		N	NG	ring
r	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	تسع
t:					t:		حَتَّى
dd	0064 0064	100 100	dd			D D	دار
d:					d:		مَدَّ
kk	006B 006B	107 107	kk			K K	كبير
k:					k:		شَكَكَ
ff	0066 0066	102 102	ff			F F	فيل
f:					f:		فَوْقَ
ss	0073 0073	115 115	ss			S S	سعيد
s:					s:		حَسَنَ
zz	007A 007A	122 122	zz			Z Z	زميل
z:					z:		هَزَّةَ
ʃʃ	0283 0283	643 643	SS			SH SH	شمس
ʃ:					ʃ:		عَشْنَ
hh	0068 0068	104 104	hh			H H	هواء
h:					h:		بَهْرَ
xx	0078 0078	120 120	xx			X X	خطاب

Double Consonant							
X:					X:		خَبِرَ
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:		كُلَّ
rr	0072 0072	114 114	rr			RR RR	رمال
θθ	03B8 03B8	952 952	TT			TH TH	ثلاث
θ:					T:		حَثَّ
ðð	00F0 00F0	240 240	DD			DH DH	ذَكَرَ
ð:					D:		فَدَّ
ʒʒ	0292 0292	658 658	ZZ			ZH ZH	جميل
ʒ:					z:		جَرَّاجَ
qq	0071 0071	113 113	qq			QT QT	قلب
q:					q:		قَوْمَ
γγ	0263 0263	611 611	GG			GH GH	غرب
g:					g:		مِكَ جَجَّرَ
ʈ	026B 026B	619 619	ʂʂ			L vel L vel	ظلال
ʂ:					R:		عَرَّقَ
ħħ	0127 0127	295 295	X\X\			HH HH	حلم
ħ:					X\:		عَمَّ
ʕʕ	0295 0295	661 661	?\?\			HG HG	علم
ʕ:					?:		سَعَّرَ
ttʕ	0074 02E4	116 740	t_?\			T phr T phr	طابع
tʕ:					t_?:		طابع
ddʕ	0064 02E4	100 740	d_?\			D phr D phr	ضرب
dʕ:					d_?:		ضرب
ððʕ	00F0 02E4	240 740	D_?\			DH phr DH phr	ظلام
ðʕ:					D_?:		ظلام
ssʕ	0073 02E4	115 740	s_?\			S phr S phr	صغير
sʕ:					s_?:		صغير
pp	0070 0070	112 112	pp			P P	الفَلْبِينِ
??	0294 0294	660 660	??			GT GT	يَتْرَأْسَ

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	حيّ
j:					j:		حيّ
w	0077	119	w	w	w	W	واحد
ww	0077 0077	119 119	ww			W W	قوة
w:					w:		قويّ

Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
a	0061	97	a	a		A	حل
ɑ					A		صنبر
a:	0061 02D0	97 720	a:	a:		A Ing	مال
ɑ:					A:		صديق
i	0069	105	i	i	i	I	ظل
i:	0069 02D0	105 720	i:	i:	i:	I Ing	عيد
u	0075	117	u	u	u	U	عمر
u:	0075 02D0	117 720	u:	u:	u:	U Ing	فول
e	0065	101	e			E	بلجيكا
o	006F	111	o			O	كوكاكولا
ɪ					ɪ		أمل البند
ɪ:					ɪ:		ألمتريير
ɔ					O		جورج
o:				o:			جورج
ɔ:					O:		نكتور
æ					{		أمل
e:				e:			إثنين
æ:					{:		باب
ɑ:	0251 02D0	593 720	A:			AA Ing	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 Ing	more
ɜ:	025C 02D0	604 720	3:			ER Ing	bird

Vowel							
ɜ	025C 032F	604 815	3_^			ER nsy	near

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aɪ			AI	my
eɪ	0065 026A	101 618	eɪ			EI	day
ɔɪ	0254 026A	596 618	Oɪ			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 Symbols 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
	0023	35				_s	pause
						_!	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	tʃ	tʃ	tʃ	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
ɲ	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	dʒ	dʒ	dʒ	JH2	conllevar
ʒ				Z	Z		calle
ʃ	0283	643	S	S	S	SH	yerba
θ	03B8	952	T	T		TH	thing

Consonant							
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 Ing	bird
ɜ				r=			earl

Syllable Symbols 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
	!	Sentence terminator					
	,	Sentence terminator					
	.	Sentence terminator					

Syllable Symbol							
	?	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
ɣ					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							

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	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

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	e	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	o	@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 Symbols 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

Syllable Symbol							
:	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					

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
ɜ̃	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
ɜ̃:	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
ɛ̃	025B 0303	603 771	E~	E~	E~	EH nas	timbre

Nasal Vowel							
õ	0254 0303	596 771	O~	O~	O~	AO nas	lyon
œ					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	aɪ			AI	rise
eɪ	0065 026A	101 618	eɪ			EI	raise
ɔɪ	0254 026A	596 618	Oɪ			Oɪ	noise

Syllable Symbols 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
ˌ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	Word boundary
	_s						pause
	!						sentence terminator
	,						sentence terminator

Syllable Symbol							
	.	⋮ 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	tʃ	tʃ	tʃ	CH2	noite
dʒ	02A4	676	dʒ	dʒ	dʒ	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	ʃ	ʃ	ʃ	SH	chapéu
ʒ	0292	658	ʒ	ʒ	ʒ	ZH	jóia
m	006D	109	m	m	m	M	mar
n	006E	110	n	n	n	N	nada
ɲ	0272	626	ɲ	ɲ	ɲ	NJ	vinho
l	006C	108	l	l	l	L	lanche
ʎ	028E	654	ʎ	ʎ	ʎ	LJ	trabalho
r	027E	638	ɾ	r	ɾ	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
ĩ					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
ě	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 Symbols Table

Syllable Symbol	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˌ				%	%		secondary stress
˘	002E	46	|	|	\$	˘	syllable boundary
space	0020	32	space	space	#	_&	word boundary
	_s	pause					
	_!	Sentence terminator					
	-'	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
ʀ	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
j	006A	106	j	j	j	J	pierre
w	0077	119	w	w	w	W	oui

Semi Vowel							
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
∅	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
ɤ	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					{~		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 Ing	épave
e:	0065 02D0	101 720	e:	e:		E Ing	imper
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	jugé
∅:	00F8 02D0	248 720	2:	2:		EU Ing	neutre

Long Vowel							
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
ẽ:	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
:	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					

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
	aaü	aaü	baaü	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
	ing	-	bing	ping	ming	-	ding	ting	ning	ling	ging
	ip	-	-	-	-	-	dip	tip	nip	lip	gip

	Initial										
	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	kwai	waai	zaai	caai	saai	jaai
	aaU	kaau	ngaau	haau	-	-	-	zaau	caau	saau	-
	aam	-	ngaam	haam	-	-	-	zaam	caam	saam	-
	aan	-	ngaam	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	-

	Initial										
	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	-	-	-	-	-	-	-
	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	-

	Initial										
	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
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
l	006C	108	l	laang

Cantonese Vowel				
IPA	Unicode	Decimal	SAMPA	Example
a	0061	97	a	baat

Cantonese Vowel				
ai	0061 0069	97 105	aj	daai
au	0061 0075	97 117	aw	maau
ei	0250 0069	592 105	6j	sai
eu	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
e	0275	629	8	seon
ey	0275 0079	629 121	8y	seoi
u	0075	117	u	gu
ui	0075 0069	117 105	uj	mui
y	0079	121	y	hyut
ɱ	006D 0329	109 809	m=	m (唔)
ŋ	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
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

English Consonant				
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
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

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
ɽ (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
tʃ	02A7	679	tS	t_S	tS	CH2	čas
dʒ	02A4	676	dZ	d_Z	dZ	JH2	džbán
dz				d_z	dz		podzim

Consonant							
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 Ing	máma
ɛ:	025B 02D0	603 720	E:	e:	E:	EH Ing	létat
i:	0069 02D0	105 720	i:	i:	i:	l Ing	klít
o:	006F 02D0	111 720	o:	o:	o:	O Ing	móda
u:	0075 02D0	117 720	u:	u:	u:	U Ing	kúlna
ɜ:	025C 02D0	604 720	ɜ:	ɜ:	ɜ:	ER	bird

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
ɛu	025B 028A	603 650	EU	e_u	Eu	EH UH	euro
aɪ	0061 026A	97 618	al	al	al	Al	my
eɪ	0065 026A	101 618	el	el	el	EI	day
ɔɪ	0254 026A	596 618	OI	OI	OI	OI	coin
eə	0065 0259	101 601	e@	e@	e@	E AX	hair

Diphthong							
ɪə	026A 0259	618 601	l@	l@	l@	IH AX	near
ʊə	028A 0259	650 601	U@	U@	U@	UH AX	retour

Syllable Symbols 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					
	_!	sentence terminator					
	_’	sentence terminator					
	_.	sentence terminator					
	_?	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
x	0078	120	x	he

Chinese Consonant				
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
ɿ	0268	616	1	zhi
u	0075	117	u	zhu
y	0079	121	y	yu
ɛ	025B	603	E	jie
ə̀	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
z	007A	122	z	zoo
ʃ	0283	643	S	she
ʒ	0292	658	Z	pleasure

English Consonant				
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
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.

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
p					p		bat
t	0074	116	t	t		T	tam
t ^h					t_h		tam
d	0064	100	d	d		D	dat
t					t		dat
k	006B	107	k	k		K	kat
k ^h					k_h		kat
g	0067	103	g	g		G	gat
k					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/b	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
ɛ	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		↓vej
m ^ʔ	006D 02C0	109 704	m ^ʔ			M GT	ram
n ^ʔ	006E 02C0	110 704	n ^ʔ			N GT	rand
ŋ ^ʔ	014B 02C0	331 704	N ^ʔ			NG GT	rang
j ^ʔ	006A 02C0	106 704	j ^ʔ			J GT	Thai
l ^ʔ	006C 02C0	108 704	l ^ʔ			L GT	ral
ð ^ʔ	00F0 02C0	240 704	D ^ʔ			DH GT	ræd
w ^ʔ	0077 02C0	119 704	w ^ʔ			W GT	tav

Consonant							
ɱ	006D 0329	109 809	m=			M syl	gennem
ɳ	006E 0329	110 809	n=			N syl	katten
ŋ	006E 0329	331 809	N=			NG syl	lakken
j	006A 0329	106 809	j=			J syl	nage
ʎ	006C 0329	108 809	ʎ=			L syl	cykel
ɸ	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
ɛ	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							
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

Long Vowel							
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	måle
æ:	00E6 02D0	230 720	{:	{:		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	{:?			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	|	|	\$	ˑ	syllable boundary

Syllable Symbol							
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
ʀ	0281	641	R	r		RH	abbatoir
ɹ	0279	633	r\			RA	dark
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
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. ʔ

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

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
u	0075	117	u	u	u	U	hoed
ø	00F8	248	2	2	2	EU	beuk
ə	0259	601	@	@	@	AX	de
ʌ	028C	652	V	^	V	AH	glove

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
ɪ:	026A 02D0	618 720	I:			IH Ing	keel
o	006F	111	o	o	o	O	poot
y	0079	121	y	y	y	Y	uur
i:	0069 02D0	105 720	i:			I Ing	cheap
ɛ:	025B 02D0	603 720	E:	E:	E:	EH Ing	gêne
ɔ:	0254 02D0	596 720	O:	O:	O:	AO Ing	roze
u:	0075 02D0	117 720	u:			U Ing	blue
y:	0079	121 720	y:			Y	bühne
œ			9		9		oeuvre
œ:	0153 02D0	339 720	9:	9:		OE Ing	oeuvre

Nasal Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ã	0251 0303	593 771	A~	A~	A~	AA nas	chanson
ɛ̃	025B 0303	603 771	E~	E~	E~	EH nas	timbre
õ	0254 0303	596 771	O~	O~	O~	AO nas	bonbon
œ̃	0153 0303	339 771	9~		9~	OEN	parfum

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

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					
	!	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	vakkOIA
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	Iammi
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 Ing	summa
m:					m:		
nn	006E 006E	110 110	nn			N Ing	kannas
n:					n:		
ŋŋ	014B 014B	331 331	NN			NG Ing	kangas
ŋ:					N:		
pp	0070 0070	112 112	pp			P Ing	keppi
p:					p:		

consonant							
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
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

vowel							
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	ʃ:	ʃ:	ʃ:	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	syylä
ø:	00F8 02D0	248 720	2:	2:		EU Ing	Töölö
œ:					9:		Töölö
ɜ:	025C 02D0	604 720	3:	3:	3:	ER	bird
ɑi	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	ʃi	ʃi	ʃi	AE I	Räihä
øi	00F8 0069	248 105	2i	2i		EU I	löi
œi					9i		
yi	0079 0069	121 105	yi	yi	yi	Y I	Lyijynen
ɑu	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	ʃy	ʃy	ʃy	AE Y	Käylä
iy	0069 0079	105 121	iy	iy	iy	I Y	siistiytynyt
ie	0069 0065	105 101	ie	ie		I E	Kierinki
iɛ					iE		
uo	0079 006f	117 111	uo	uo	uo	U O	Tuorila
øy	00F8 0079	248 121	2y	2y		EU Y	köysi
œy					9y		
yø	0079 00F8	121 248	y2	y2		Y EU	Hyönölä
yœ					y9		
eə	0065 0259	101 601	e@	e@		E AX	stairs
ɛə					E@		stairs

vowel							
ɪə	026A 0259	618 601	l@	l@	l@	IH AX	fear
uə	028A 0259	650 601	U@	U@	U@	UH AX	cure

Syllable Symbols 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
	!						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
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							
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

Vowel							
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
	–	pause					
	!	Sentence terminator					
	,	Sentence terminator					
	.	Sentence terminator					

Syllable Symbol							
	?	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		¹Verein
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
ṃ	006D 0329	109 809	m=	=m	m=	ax^m	Luxemburg
n	006E	110	n	n	n	n	nein
ṅ	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
ḷ	006C 0329	108 809	l=	=l	l=	ax^l	Kessel
ʀ	0280	640	R\			r^x	Reim
r				r	r		Reim
ʁ							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. ʔ

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							
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
ɛɪ	0061 026A	97 618	aI	aI		ay	Eis
ai					ai		Eis
au	0061 028A	97 650	aU	aU		aw	Haus
au					au		Haus
ɔɪ	0254 028F	596 655	OY	OY		oy	Heute
ɔy					OY		Heute
ou	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
ˑ	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

* This language cannot be bolded in spelling.

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	tS	tS	tS	tS	צ'כוסלובקיה
dʒ	02A4	676	dZ	dZ	dZ	dZ	ג'ינס
					dz	dz	
ʃ	0283	643	S	S	S	S	שלכת
ʒ	0292	658	Z	Z	Z	Z	מסאז
j	006A	106	j	j	j	j	י'רח
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
ʁ	0281	641	R	R	R	R	רוגע
w	0077	119	w	w	w	w	ווישינגטון
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
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	גִּמְל
e	0065	101	e	e	e	e	בֵּית
a	0061	97	a	a	a	a	אֶלֶף
u	0075	117	u	u	u	u	נוֹן
o	006F	111	o	o	o	o	וֹד
ə	0259	601	@	@	@	@	teacher

Syllable Symbols 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
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

* This language cannot be bolded in spelling.

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	d̪			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
ɳ	014B	331	N			NG	अंग
ɳ̪	0273	627	n̪			NR	मंडी
f	0066	102	f			F	फ़न
v	028B	651	P			VA	वहाँ
s	0073	115	s			S	सात
ʃ	0282	642	s̪			SR	हर्ष
x	0078	120	x			X	खाक
z	007A	122	z			Z	मंजिल
ʈ	0288	648	t̪			TR	टप्पा
ʃ	0283	643	S			SH	शाम
tʃ	02A7	679	tS			CH2	चाल
ɖʒ	02A4	676	dZ			JH2	आज
ɽ	0263	611	G			GH	रौर
h	0068	104	h			H	हाल
ɦ							
l	006C	108	l			L	लोग
r	027E	638	ɽ			RR	रोग
ɽ	027D	637	r̪			DXR	पड़
ɽ̪	027D 0324	637 804	r̪_t			DXR bvd	पढ़
p ^h	0070 02B0	112 688	p_h			P asp	फल
b ^h	0062 02B0	98 688	b_h			B asp	भला
ɓ							

t ^h	0074 02B0	116 688	t_h			T asp	थाल
ṭ ^h	0288 02B0	648 688	ṭ_h			TR asp	ठप्पा
d ^h	0064 02B0	100 688	d_h			D asp	धाम
ḍ							
ḍ ^h	0256 02B0	598 688	ḍ_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
ʈʂ ^h	02A4 02B0	676 688	dZ_h			JH2 asp	झीना
ḍ͡ʒ							
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	dḍ			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	गफ़फ़ार
f:							
vv	028B 028B	651 651	vv			VA Ing	अव्वल
v:							
ss	0073 0073	115 115	ss			S Ing	हिस्सा
s:							
tṭ	0288 0288	648 648	tṭ			TR Ing	पट्टी
ṭ:							

ʃʃ	0283 0283	643 643	SS			SH Ing	निशंक
ʃ:							
zz	007A 007A	122 122	zz			Z Ing	इज़त
z:							
ttʃ	0074 02A7	116 679	ttS			CH2 Ing	बच्चा
ttʃ:							
ddʒ	0064 02A4	100 676	ddZ			JH2 Ing	लज़ा
ddʒ:							
ll	006C 006C	108 108	ll			L Ing	बिल्ली
l:							
rr	0072 0072	114 114	rr			RR Ing	ढर्रा
r:/r							
ppʰ	0070 0070 02B0	112 112 688	pp_h			P asp Ing	फुफ़स
ppʰ:							
ttʰ	0074 0074 02B0	116 116 688	tt_h			T asp Ing	हत्था
ttʰ:							
ttʰ	0288 0288 02B0	648 648 688	tt`_h			TR asp Ing	भट्टी
ttʰ:							
ddʰ	0064 0064 02B0	100 100 688	dd_h			D asp Ing	सिद्ध
ddʰ:/dʰ:							
ddʰ	0256 0256 02B0	598 598 688	dd`_h			DR asp Ing	गड्डा
ddʰ:/dʰ:							
kkʰ	006B 006B 02B0	107 107 688	kk_h			K asp Ing	मकखी
kkʰ:							
ggʰ	0067 0067 02B0	103 103 688	gg_h			G asp Ing	बग्घी
ggʰ:/gʰ:							
ttʃʰ	0074 02A7 02B0	116 679 688	ttS_h			CH2 asp Ing	अच्छा
ttʃʰ:							
ddʒʰ	0064 02A4 02B0	100 676 688	ddZ_h			JH2 asp Ing	झज़ज़र
ddʒʰ:/dʒʰ:							
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
ū	0075 0303	117 771	u~			U nas	गेहूँ
ē	0065 0303	101 771	e~			E nas	हमें
ĕ	025B 0303	603 771	E~			EH nas	भैस
ō	006F 0303	111 771	o~			O nas	क्यों
õ	0254 0303	596 771	O~			AO nas	चौंसठ

Syllable Symbols 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
ˑ	002E	46	|			ˑ	syllable boundary
space	0020	32	space			_&	word boundary

Syllable Symbol							
	_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	J\	J\	J\	JD	gyűrű
k	006B	107	k	k	k	K	kép
g	0067	103	g	g	g	G	gólya
m	006D	109	m	m	m	M	magyar
n	006E	110	n	n	n	N	nap
ɲ	0272	626	J	J	J	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	S	S	S	SH	sál
ʒ	0292	658	Z	Z	Z	ZH	zsiráf
h	0068	104	h	h	h	H	ház
ɦ			h\	h\			zuhany
r	0072	114	r	r	r	RR	róka
l	006C	108	l	l	l	L	ló
ʦ	02A6	678	ts	ts	ts	TS2	cica
dʒ	02A3	675	dz	dz	dz	DZ2	brindza
tʃ	02A7	679	tS	tS	tS	CH2	csacsi
dʒ	02A4	676	dZ	dZ	dZ	JH2	dzsem
x	0078	120	x	x	x	X	düh
ð	00F0	240	D	D	D	DH	they
ɱ	0271	625	F	F		MF	honvéd
ŋ	014B	331	N	N	N	NG	hang
θ	03B8	952	T	T	T	TH	bath
pp	0070 0070	112 112	pp	pp	pp	P Ing	éppen
bb	0062 0062	98 98	bb	bb	bb	B Ing	ebben

Consonant							
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
ʝ	025F 025F	607 607	J\J\	J\J\	J\J\	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	hévvel
ss	0073 0073	115 115	ss	ss	ss	S Ing	asszony
zz	007A 007A	122 122	zz	zz	zz	Z Ing	rezen
ʃʃ	0283 0283	643 643	SS	SS	SS	SH Ing	édesség
ʒʒ	0292 0292	658 658	ZZ	ZZ	ZZ	ZH Ing	mélygarázssal
rr	0072 0072	114 114	rr	rr	rr	RR Ing	arra
ll	006C 006C	108 108	ll	ll	ll	L Ing	allergia
tʃs	0274 02A6	116 678	tʃs	tʃs	tʃs	TS2 Ing	játssz
tʃʃ	0274 02A7	116 679	tʃS	tʃS	tʃS	CH2 Ing	taníts
ddz	0064 02A3	100 675	ddz	ddz	ddz	DZ2 Ing	eddz
ddʒ	0064 02A4	100 676	ddZ	ddZ	ddZ	JH2 Ing	bridddzel

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 Ing	fejj

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 Ing	víz

Vowel							
y:	0079 02D0	121 720	y:	y:	y:	Y Ing	túz
e:	0065 02D0	101 720	e:	e:	e:	E Ing	ég
a:	0061 02D0	97 720	a:	a:	a:	A Ing	ág
ø:	00F8 02D0	248 720	2:	2:	2:	EU Ing	őr
o:	006F 02D0	111 720	o:	o:	o:	O Ing	óra
u:	0075 02D0	117 720	u:	u:	u:	U Ing	út

Syllable Symbols 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	|	|	\$	ˑ	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
t ^h				t_h			Thakkar
d	0064	100	d			D	do
d̪				d̪	d̪		dim
d̪̥				d_h			Dharmindra
d ^h				d_h			Dhaka
tʃ	02A7	679	tS	tS	tS	CH2	chair
tʃ ^h				tS_h			Chota
dʒ	02A4	676	dZ	dZ	dZ	JH2	joy
dʒ ^h				dZ_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
ʋ				v\	P		very
θ	03B8	952	T			TH	think
t̪ ^h				t_h			thin
t̪̥ ^h					t_h		thin
ð	00F0	240	D			DH	this
ɖ				d			this
d ^h					d_h		that
s	0073	115	s	s	s	S	see
z	007A	122	z	z	z	Z	zoo
ʃ	0283	643	S	S	S	SH	she

Consonant							
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
r	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	I	I	I	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
u				u	u:		boot
ɜ:	025C 02D0	604 720	3:			ER Ing	bird
ɜ					3:		turn

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	al	al	al	AI	rise

Diphthong							
ɛɪ	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 Symbols 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
	0023	35				_s	pause
	_!	Sentence terminator					
	_’	Sentence terminator					
	_.	Sentence terminator					
	_?	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	¹ maaf
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 [maʔaf] .^٤

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

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
ɹ	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
ttʃ	0074 02A7	116 679	ttS	ttS		CH2 Ing	faccia
tʃ:					tS:		faccia
ddʒ	0064 02A4	100 676	ddZ	ddZ		JH2 Ing	oggi
dʒ:					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
ʃʃ	0283 0283	643 643	SS	SS		SH Ing	viscidità
ʃ:					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
ɲɲ	0272 0272	626 626	JJ	JJ		NJ Ing	bagno
ɲ:					J:		bagno
rr	0072 0072	114 114	rr	rr		RR Ing	ferro
r:					r:		ferro
ll	006C 006C	108 108	//	//		L Ing	colla
l:					l:		colla
λλ	028E 028E	654 654	LL	LL		LJ Ing	foglia
λ:					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	mutò
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	ˈ	ˈ	ˈ	S1	primary stress
ˌ	02CC	716	%	%	%	S2	secondary stress
ː					:	Ing	length mark
·	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
	0023	35				_s	pause
	_!	Sentence terminator					

Syllable Symbol							
	-'	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	Nɳ

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
jo	006A 006F	106 111	jo

Vowel			
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_ho|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_ho|jo|il
d	0064	100	d	기도	ki|do
t͡s	02A8	680	ts\	저울	ts\|ul
t͡s ^h	02A8 02B0	680 688	ts_h	치과	ts_hi|ggwa
d͡z	02A3	675	dz	기자	ki|dza
k	006B	107	k	구두	ku|du
k ^h	006B 02B0	107 688	k_h	카드	k_ha|dM
g	0067	103	g	지구	tsi|gu
s	0073	115	s	사과	sa|gwa
h	0068	104	h	효과	hjo|ggwa
x	0078	120	x	이해	i|xE
m	006D	109	m	메기	me|gi
n	006E	110	n	나무	na|mu
l	006C	108	l	라면	la|mj|Vn
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|ggugi
dd	0064 0064	100 100	dd	딸기	ddal|gi
t͡t͡s	02A8 02A8	680 680	tts\	쭈꾸미	tts\|uggumi
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	ts\ip
t	0074	116	t	받침	pat|ts_him
k	006B	107	k	묵	mok
m	006D	109	m	힘	him

Coda Consonant					
n	006E	110	n	손	son
ŋ	014B	331	N	장기	ts\aN|gi
l	006C	108	l	날개	nal|gE

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	E	애교	E|gjo
ø	F8	248	2	외국	2|guk
ʌ	028C	652	V	어머니	V|mV|ni
ʍ	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	jE	애기	jE|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	wE	왜	wE
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
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
ø	00F0	240	D			DH	weather
θ	03B8	952	T			TH	mouth

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

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

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	tʃ	tʃ	tʃ	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
ɲ	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
ɟ	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	dʒ	dʒ	dʒ	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

Semi Vowel							
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	ɜ:			ER lng	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	|	|	\$	.	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	labb
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
ʂ					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
ɾ	0288	648	rt	rt	t`	TR	hardt
ɖ	0256	598	rd	rd	d`	DR	verdi
ɽ	026D	621	rl	rl	l`	LR	ærlig
ɺ	0273	627	rn	rn	n`	NR	garn
ɻ	006E 0329	110 809	n=	n=	n=	N syl	kisten
ɺ	0273 0329	627 809	rn=	rn=	n`=	NR syl	gården
ɽ	006C 0329	108 809	l=	l=	l=	L syl	kittels
ɽ	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
ʉ	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	{:	{:	{:	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
ʉ:	0289 02D0	649 720	}::	}::	}::	YX Ing	lun
ɜ:	025C 02D0	604 720	3:	3:	3:	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
øɹ	00F8 028F	248 655	2y	2y		EU YH	høy
œɹ					9Y		høy
æʉ	00E6 0289	230 649	A}	A}		AE YX	sau

εÛ					EU_"		tau
αι	0251 026A	593 618	Ai	Ai	AI	AI	kai
ογ	0254 028F	596 655	Oy	Oy		AO YH	konvoy
οι					OI		konvoi
αυ	0061 028A	97 650	aU	aU	aU	AW	about
ου	006F 028A	111 650	oU	oU	oU	OW	nose
εε	0065 0259	101 601	e@	e@		E AX	stairs
εθ					E@		stairs
ιε	026A 0259	618 601	I@	I@	I@	IH AX	fear
υε	028A 0259	650 601	U@	U@	U@	UH AX	cure

Syllable Phonetic Table

Syllable Symbol	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1 T1	primary stress(Tone 1)
ˑ		39		ˑ			
ˊ	0060	96	ˊˊ	ˊˊ	ˊˊ	S1 T2	primary stress(Tone 2)
ˋ	02CC	716	%	%	%	S2	secondary stress
ː	02D0	720	ː	ː	ː	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					

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
ɕ	0282	642	s`			SR	szum
ʒ				Z	Z		żal
ʑ	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
ɛ	0255	597	s\	s'	s\	SC	śruba
ʐ	0291	657	z\	z'	z\	ZC	żrebię
ʦ	02A6	678	ts	ts	ts	TS2	car
ʧ	0074 0282	116 642	ts`			TSR	czas
tʃ				tS	tS		czas
tʃ				t-S			trzy
ʤ	02A3	675	dz	dz	dz	DZ2	dzwon
ʑ	0064 0290	100 656	dz`			DZR	dżem
ɕ				dZ	dZ		dżem
ɕ				d-Z			drzewo
ʦ	02A8	680	ts\	ts'	ts\	CC2	ćma
ʑ	02A5	677	dz\	dz'	dz\	JC2	dźwięk

Consonant							
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
ʈʂ				ʈʂ			czczy
ɖʐ				ɖʐ			dźdźy
ʃʃ				ʃʃ			ssać
s:					s:		ssak
ʒʒ				ʒʒ			zza
z:					z:		zza
pʲ				pʲ			pik
bʲ				bʲ			biada
tʲ				tʲ			tirli
dʲ				dʲ			dialekt
kʲ				kʲ			kilka
gʲ				gʲ			gigant
mʲ				mʲ			milion
rʲ				rʲ			austria
lʲ				lʲ			lipiec
fʲ				fʲ			fik
vʲ				vʲ			wiele
xʲ				xʲ			hit
ʒʒʲ				ʒʒʲ			zzieleniał
ʃʃʲ				ʃʃʲ			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
ɛ:					ɛ:		jaś śpi
ʐ:					ʐ:		weź żrebaka
l:					l:		willa
j:					j:		najjaśniej

Consonant							
w:					w:		paweł łgał

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
ɨ̃				w~			czyją

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ɑ:	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

Long Vowel							
u:	0075 02D0	117 720	u:		u:	U lng	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	aU			AU	about
eɪ	0065 026A	101 618	eɪ			EI	day
eə	0065 0259	101 601	e@			EHX	where
ɛə							where
ɪə	026A 0259	618 601	ɪ@			IYX	near
oʊ	006F 028A	111 650	oU			O UH	only
ɔɪ	0254 026A	596 618	Oɪ			Oɪ	enjoy
ʊə	028A 0259	650 601	U@			UWX	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
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

Syllable Symbol							
	_?	| 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	tʃ			CH2	cappuccino
dʒ	02A4	676	dʒ			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	ʃ	ʃ	ʃ	SH	chá
ʒ	0292	658	ʒ	ʒ	ʒ	ZH	gelo
m	006D	109	m	m	m	M	cama
n	006E	110	n	n	n	N	nabo
ɲ	0272	626	ɲ	ɲ	ɲ	NJ	nhando
l	006C	108	l	l	l	L	lápiz
ɫ				W	5		palha
ʎ	028E	654	ʎ	ʎ	ʎ	LJ	palha
r				r			caro
ʀ	027E	638	ʀ		4	DX	caro
ʁ	0281	641	ʁ	R	R	RH	carro
θ	03B8	952	θ			TH	threw

Semi-Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
j	006A	106	j	j	j	J	pai
ĩ	006A 0303	106 771	j~		j~	J nas	mãe
w	0077	119	w	w	w	W	causa
ũ	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
ə	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
ē	0065 0303	101 771	e~	e~	e~	EN	tempo
ī	0069 0303	105 771	i~	i~	i~	I nas	interior
õ	006F 0303	111 771	o~	o~	o~	ON	pronto
ū	0075 0303	117 771	u~	u~	u~	U nas	punção

Syllable Phonetic Table

Syllable Symbol	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Definition
ˈ	02C8	712	ˈ	ˈ	ˈ	S1	primary stress
ˑ				%	%		secondary stress
ˑ	002E	46	|	|	\$	ˑ	syllable boundary
space	0020	32		space	#	_&	word boundary
	0023	35				_s	pause
	_!	Sentence terminator					
	_'	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
ɛ̥	0065 032F	101 815	e_^	e_X	E nsy	deasă
ɔ̥	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
ˈ	02C8	712	ˈ	ˈ	S1	primary stress
ˑ	02CC	716	%	%	S2	secondary stress

Syllable Symbol						
:	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 Ing	оргкомитет
k:				kk			оргкомитет

gg	0067 0067	103 103	gg			G Ing	квагга
g:				gg			квагга
mm	006D 006D	109 109	mm			M Ing	суммы
m:				mm			суммы
nn	006E 006E	110 110	nn			N Ing	тонна
n:				nn			тонна
rr	0072 0072	114 114	rr			RR Ing	мирра
r:				rr			мирра
ll	006C 006C	108 108	ll			L Ing	вилла
l:				ll			вилла
ff	0066 0066	102 102	ff			F Ing	диффузия
f:				ff			диффузия
vv	0076 0076	118 118	vv			V Ing	ввод
v:				vv			ввод
ss	0073 0073	115 115	ss			S Ing	иссох
s:				ss			иссох
zz	007A 007A	122 122	zz			Z Ing	беззубый
z:				zz			беззубый
xx	0078 0078	120 120	xx			X Ing	трёхходовка
x:				xx			трёхходовка
jj	0283 0283	643 643	SS			SH Ing	сшить
j:				SS			сшить
33	0292 0292	658 658	ZZ			ZH Ing	сжечь
3:				ZZ			сжечь
tts	02A6 02A6	678 678	tts			TS Ing	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
dj	0064 02B2	100 690	d_j	d_j	d_j	D pal	дед
kj	006B 02B2	107 690	k_j	k_j	k_j	K pal	кит
gj	0067 02B2	103 690	g_j	g_j	g_j	G pal	гид
mj	006D 02B2	109 690	m_j	m_j	m_j	M pal	мёд
nj	006E 02B2	110 690	n_j	n_j	n_j	N pal	нёс
ri	0072 02B2	114 690	r_j	r_j	r_j	RR pal	рек
lj	006C 02B2	108 690	l_j	l_j	l_j	L pal	лёг
fi	0066 02B2	109 690	f_j	f_j	f_j	F pal	фен
vj	0076 02B2	118 690	v_j	v_j	v_j	V pal	вёл

sj	0073 02B2	115 690	s_j	s_j	s_j	S pal	сѣк
zj	007A 02B2	122 690	z_j	z_j	z_j	Z pal	зим
xj	0078 02B2	120 690	x_j	x_j	x_j	X pal	хит
ʃj	0283 02B2	643 690	S_j	S_j	S_j	SH pal	щѣк
ʒj	0292 02B2	658 690	Z_j	Z_j	Z_j	ZH pal	чащѣ- баишево
tʃj	02A7 02B2	679 690	tS_j	tS_j	tS_j	CH pal	чур
dʒj				dZ_j	dZ_j		чур
ppj	0070 0070 02B2	112 112 690	pp_j			P pal Ing	группе
pj:				pp_j			группе
bbj	0062 0062 02B2	98 98 690	bb_j			B pal Ing	хобби
bj:				bb_j			хобби
ttj	0274 0074 02B2	116 116 690	tt_j			T pal Ing	оттѣк
tj:				tt_j			оттѣк
ddj	0064 0064 02B2	100 100 690	dd_j			D pal Ing	отдел
dj:				dd_j			отдел
kkj	006B 006B 02B2	107 107 690	kk_j			K pal Ing	мекке
kj:				kk_j			мекке
ggj	0067 0067 02B2	103 103 690	gg_j			G pal Ing	регги
gj:				gg_j			регги
mmj	006D 006D 02B2	109 109 690	mm_j			M pal Ing	сумме
mj:				mm_j			сумме
nnj	006E 006E 02B2	110 110 690	nn_j			N pal Ing	тонне
nj:				nn_j			тонне
rrj	0072 0072 02B2	114 114 690	rr_j			RR pal Ing	сюрреалист
rj:				rr_j			сюрреалист
llj	006C 006C 02B2	108 108 690	ll_j			L pal Ing	колли
lj:				ll_j			колли
ffj	0066 0066 02B2	109 109 690	ff_j			F pal Ing	аффикс
fj:				ff_j			аффикс
vvj	0076 0076 02B2	118 118 690	vv_j			V pal Ing	ввѣл
vj:				vv_j			ввѣл

ssj	0073 0073 02B2	115 115 690	ss_j		S pal Ing	иссёк
sj:				ss_j		иссёк
zzj	007A 007A 02B2	122 122 690	zz_j		Z pal Ing	иззябший
zj:				zz_j		иззябший
xxj	0078 0078 02B2	120 120 690	xx_j		X pal Ing	воххе
xj:				xx_j		воххе
ʃʃ	0283 0283 02B2	643 643 690	SS_j		SH pal Ing	бессчётный
ʃj:				SS_j		бессчётный
ʒʒ						дрожжи
ʒj:				ZZ_j		дрожжи
ttʃ	02A7 02A7 02B2	116 679 690	ttS_j		CH pal Ing	отчёт
ʃj:				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	пять
ʌ	028C	652	V	V	V	AH	опять
ə	0259	601	@	@	@	AX	точка
ɜ				\$=			точка
ɹ					7		лодка
u	0075	117	u	u	u	U	тут
ʉ	0289	649	}	}		YX	тюк
ʊ	028A	650	U	U		UH	укол
ɥ	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
ɐ	0258	600	@\	l		EX	опыт
ɨ	0268	616	1	1	1	IX	бык
ɪ	026A	618	l	\$	l	IH	россии

i	0069	105	i	i	i	l	иди
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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
:					:	lng	length mark
ˑ	002E	46	|	|	\$	.	syllable boundary
space	0020	32	space	space	#	_&	word boundary
	_s	pause					
	_!	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	d'aleko
k	006B	107	k	k	k	K	koláč
l	006C	108	l	l	l	L	láska
ʌ	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

--	--	--	--	--	--	--	--

Syllable Symbol							
'	02C8	712	'	'	'	S1	primary stress
ˊ	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					

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	/	/	/	/	lejos
ʎ	028E	654	L	L	L	ll	caballo
ɰ	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
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	ɜ:			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
ɧ	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	sot
ʂ	0282	642	s`	rs	s`	SR	torsdag
t	0074	116	t	t	t	T	tok
ʈ	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
ʈʂ	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
				p_h			pil
				t_h			till

Consonant							
				k_h			kal
				rt_h			berthén
				?			1 _a

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
ɯ	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	{:	{:	{:	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
œ:	0153 02D0	339 720	9:	9:	9:	OE Ing	öra
ø:	00F8 02D0	248 720	2:	2:	2:	EU Ing	nöt
ɸ:	0289 02D0	649 720	}::	}::	}::	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	3:	3:	3:	ER	higher

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
au	0061 028A	97 650	aU	aU	aU	AU	aula

Diphthong							
e:u				e:u	eU		europé
au				au			aula
aɪ	0061 026A	97 618	al	al	al	AI	White
eɪ	0065 026A	101 618	el	el	el	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)
ˌ	0060	96	ˌˌ	ˌˌ	ˌˌ	S1 T2	primary stress (Tone2)
ˋ	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					

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\ ^h	ji
tʂ ^h	02A8 02B0	680 688	ts\ ^h _h	qi
ʂ	0255	597	s\ ^h	xi
k	006B	107	k	ge
k ^h	006B 02B0	107 688	k_h	ke
x	0078	120	x	he
w	0077	119	w	wa
j	006A	106	j	ya

Chinese Consonant				
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
au	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
ɿ	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
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

English Consonant				
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
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.

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

* This language cannot be bolded in spelling.

Consonant							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
p	0070	112	p	p	p	P	ป่า
p ^h	0070 02B0	112 688	p_h	ph	p_h	P asp	พา
b	0062	98	b	b	b	B	บิน
t	0074	116	t	t	t	T	ตา
t ^h	0074 02B0	116 688	t_h	th	t_h	T asp	ทา
d	0064	100	d	d	d	D	ดิน
tɕ	02A8	680	ts\			CC2	จาน
c				c	tS		จาน
tɕ ^h	02A8 02B0	680 688	ts_h			CC2 asp	ชาย
c ^h				ch	tS_h		ชาย
k	006B	107	k	k	k	K	กา
k ^h	006B 02B0	107 688	k_h	kh	k_h	K asp	คา
ʔ	0294	660	ʔ	ʔ	ʔ	GT	อา
f	0066	102	f	f	f	F	ฟ้า
s	0073	115	s	s	s	S	สาม
h	0068	104	h	h	h	H	หา
l	006C	108	l	l	l	L	ลา
r	0072	114	r	r	4	RR	รา
m	006D	109	m	m	m	M	มา
n	006E	110	n	n	n	N	นา
ŋ	014B	331	N	N	N	NG	งา
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	ยา
w	0077	119	w	w	w	W	วัง

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

Single Vowel							
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
ʌ	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	จุด
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	เจอะ
ə:				@:			เจอะ
ʌ:	026F 02D0	623 720	M:	M:	M:	UU Ing	ยัด

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
ʌa	026F 0061	623 97	Ma	Ma	Ma	UUA	เสื่อ
i:a	0069 02D0 0061	105 720 97	i:a			I Ing A	เมียบ
u:a	0075 02D0 0061	117 720 97	u:a			U Ing A	มัว
ʌ: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	ดา
2	0300	768	_L	_2	_L	T2	ซ่า
3	0302	770	_F	_3	_F	T4 T2	ค่า
4	0301	769	_H	_4	_H	T4	ด้า

Tone							
5	030C	780	_R	_5	_R	T2 T4	၇၈

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
ɟ	025F	607	J\	g'	J\	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
ʃ	0283	643	S	S	S	SH	aşı
ʒ	0292	658	Z	Z	Z	ZH	müjde
h	0068	104	h	h	h	H	hasta
ɣ	0263	611	G	G	G	GH	sağır
tʃ	02A7	679	tS	tS	tS	CH2	seçim
dʒ	02A4	676	dZ	dZ	dZ	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
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. ء

Monophthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ä	0061 0308	97 776	a_ ¹			A cen	hâlä
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_'. ء

Long Vowel							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
ä:	0061 0308 02D0	97 776 720	a_': ¹			A cen Ing	kâğıda
a:	0061 02D0	97 720	a:	a:	a:	A Ing	ağacı
ø:	00F8 02D0	248 720	2:	2:	2:	EU Ing	göğçe
e:	0065 02D0	101 720	e:	e:	e:	E Ing	ayçiçeği
i:	0069 02D0	105 720	i:	i:	i:	I Ing	balıç
o:	006F 02D0	111 720	o:	o:	o:	O Ing	bloğa
u:	0075 02D0	117 720	u:	u:	u:	U Ing	doruğa
ʊ:	026F 02D0	623 720	M:	1:	M:	UU Ing	findğa
y:	0079 02D0	121 720	y:	y:	y:	Y Ing	gördüğü
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
au	0061 028A	97 650	aU	aU	aU	AU	about
ou	006F 028A	111 650	oU	oU	oU	O UH	nose
ax	0061 026A	97 618	al	al	al	Al	my

Diphthong							
ei	0065 026A	101 618	el	el	el	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 Symbols 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	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					

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
ɫ				=l	l=		turtle
r	0279	633	r\			RA	run, 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	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							
Syllable Symbol	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
				*			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
t̪					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
ɫ					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
ɫ					l=		turtle
ɹ	0279	633	r\			r	run
ɹ̥					r`		wrong
r				r			wrong
ʔ				ʔ			¹ the egg
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
ɚ	025A	602	@`	@r		er	butter
ɝ				@r			bird
ɜ					3:		curry
ɝ̥					3:`		fur

Diphthong							
IPA	Unicode	Decimal	SAMPA	NT-SAMPA	TA-SAMPA	SAPI	Example
aɪ	0061 026A	97 618	aI	aI	aI	ay	rise
eɪ	0065 026A	101 618	eI	e	eI	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	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
				*			nuclear stress

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