

Synthesizer V Studio Phoneme Reference Sheet (1.9.0 update)														
English - ARPABET				Japanese - ROMAJI				Mandarin Chinese - XSAMPA				Cantonese Chinese - XSAMPA		
Phoneme	Category	Example		Phoneme	Category	Example		Phoneme	Category	Example		Phoneme	Category	Example
aa	vowel	far		a	vowel	あ a		a	vowel	他 t _a 而 er		ts	affricate	自 z _i
ae	vowel	bat		i	vowel	い i		A	vowel	狼 l _{ang}		tsh	affricate	次 c _i
ah	vowel	duck		u	vowel	う u		o	vowel	我 w _o		f	fricative	风 f _{ung}
ao	vowel	fought		e	vowel	え e		@	vowel	碰 peng		h	fricative	可 h _o
aw	diphthong	about		o	vowel	お o		e	vowel	黑 hei		s	fricative	雪 sy _{ut}
ax	vowel	replica		N	vowel	ん n		7	vowel	的 de		l	liquid	哩 le
ay	diphthong	dye		t	stop	た ta		U	vowel	从 cong		m	nasal	茗 ming
b	stop	back		d	stop	だ da		u	vowel	无 wu		n	nasal	年 nin
ch	affricate	chalk		s	fricative	さ sa		i	vowel	伊 yi		N	nasal	外 ngoi
d	stop	day		sh	fricative	しゃ sha		i\	vowel	死 si		w	semivowel	泳 wing
dx	stop	stutter		j	affricate	じゃ ja		i`	vowel	是 shi		j	semivowel	一 jat
dr	affricate	drive		z	affricate	ざ za		y	vowel	雨 yu		p	stop	不 bat
dh	fricative	rhythm		ts	affricate	つ tsu		AU	diphthong	好 hao		ph	stop	坯 pei
eh	vowel	bed		k	stop	か ka		@U	diphthong	都 dou		t	stop	代 doi
er	vowel	river		g	stop	が ga		ia	diphthong	家 jia		th	stop	秃 tuk
ey	diphthong	day		h	aspirate	は ha		iA	diphthong	将 jiang		k	stop	九 gau
f	fricative	fright		b	stop	ば ba		iAU	diphthong	小 xiao		kh	stop	期 kei
g	stop	glock		p	stop	ぱ pa		ie	diphthong	谢 xie		kw	stop	瓜 gwaa
hh	aspirate	hay		f	fricative	ふあ fa		iE	diphthong	先 xian		kwh	stop	夸 kwaa
ih	vowel	sick		ch	affricate	ちゃ cha		iU	diphthong	穹 qiong		a	vowel	责 zaak
iy	vowel	peak		ry	liquid	りゃ rya		i@U	diphthong	袖 xiu		6	vowel	周 zau
jh	affricate	just		ky	stop	きゃ kya		y{	diphthong	元 yuan		E	vowel	些 se
k	stop	rock		py	stop	ピャ pya		yE	diphthong	学 xue		e	vowel	坯 pei
l	liquid	life		dy	stop	ぢゃ dya		ua	diphthong	花 hua		i	vowel	兒 ji
m	nasal	might		ty	stop	ちゃ ty _a		uA	diphthong	黄 huang		l	vowel	升 sing
n	nasal	night		ny	nasal	にゃ nya		u@	diphthong	顺 shun		O	vowel	开 hoi
ng	nasal	singer		hy	aspirate	ひゃ hya		ue	diphthong	对 duì		o	vowel	數 sou
ow	diphthong	low		my	nasal	みゃ mya		uo	diphthong	多 duo		u	vowel	漬 kui
oy	diphthong	toy		gy	stop	ぎゃ gya		:i	coda	还 hai		U	vowel	用 jung
p	stop	pen		by	stop	びゃ bya		r\`	coda	而 er		9	vowel	约 joek
r	semivowel	road		n	nasal	な na		:n	coda	岸 an		8	vowel	摔 seot
s	fricative	steel		m	nasal	ま ma		N	coda	从 cong		y	vowel	雪 syut
sh	fricative	shrimp		r	liquid	ら la		p	stop	并 bing		m=	vowel	唔 m
t	stop	time		w	semivowel	わ wa		ph	stop	平 ping		N=	vowel	五 ng
tr	affricate	try		v	semivowel	ヴァ va		t	stop	带 dai		:i	coda	女 neo <i>i</i>
th	fricative	truth		y	semivowel	や ya		th	stop	同 tong		:u	coda	好 hou
uh	vowel	full						k	stop	给 gei		:m	coda	闪 sim
uw	vowel	due		STD-exclusive				kh	stop	开 kai		:n	coda	新 san
v	fricative	valve		br1	breath			ts\	affricate	几 ji		:N	coda	风 fung
w	semivowel	wool		br2				ts	affricate	子 zi		:p_}	coda	汁 zap
y	semivowel	yacht		br3				tsh	affricate	从 cong		:t_}	coda	雪 syut
z	fricative	zebra		br4				ts`	affricate	只 zhi		:k_}	coda	责 zaak
zh	fricative	vision		br5				ts`h	affricate	尘 chen				
				br6				x	aspirate	好 hao				
				br7				f	fricative	风 feng				
Common phonemes				br8				s	fricative	三 san				
cl	glottal stop			brl1	long breath			s`	fricative	是 shi				
pau	silence (highly situative)			brl2				ts\h	fricative	七 qi				
sil	silence (highly situative)			brl3				s\	fricative	星 xing				
br	breath			brl4				m	nasal	吗 ma				
				brl5				n	nasal	女 nü				
				brl6				l	liquid	来 lai				
				brl7				z`	semivowel	日 ri				
				brl8				w	semivowel	网 wang				
				* supported only by specific voice databases (Medium5 STD and Saki)				j	semivowel	用 yong				
													TiredBee	