NOTICE

This hed file was created using UtauUtauUtau's online tool. It uses arpasing and some other phonemes from Italian, Latin & French to make an all encompasing hed file for **OPERA**.

This is a list of the currently supported phonemes, examples, and other various notes.

This phoneme set **covers all English phonetic sounds, with aproximations for support for latin, italian & French**, utilizing NNSVS's phoneme context. As such it will work for loan purposes of **OPERA** songs in different languages such as latin, italian, french, ect...

Vowels - monophthongs:

Phoneme	Aproximation	IPA	Description
ah	h U t	٨	'uh' sound.
aa	cl O ck	a~p	open ah.
ao	b OU ght, st OR y	Э	un/rounded aw. **US English uses unrounded by itself but rounded for rhotic. It's fine.
ae	b A t	æ~a	"at" sound for US.
ax	comm A , parr O t	ə	schwa.
iy	b EA t,pet I t	i	
ih	s I t	I	
ix	ros E s, rabb I t	÷	
uh	b OO k, n OO k	Ω	
uw	b OO t, s UI t	u	
eh	b E t, pl E thera	ε	
er	b IR d, n ER d	3 ¹	
ux	d U de	u	Pronounced like "oo"

Vowels - diphthongs:

Phoneme	oneme Aproximation		Description
ay	bIte	aI	
ey	bAIt	eI	
oy	bOY	DI	
aw	plOW, abOUt	aσ	
ow	bOAT	οσ	
eu	EUro	eu	
ui	rUIn	ui	

Consonants:

Voice and unvoiced equivalents are paired (ex: k/g, t/d)

Phoneme	Aproximation	IPA	Description
b	B etter, B erry	b	
ch	Chance, Change	t∫	
d	D ea D	d	
dh	Then	ð	
dx	bu TT er	٢	
dz	aDDS	dz	
el	bottLE	1	
em	rhyth M	m	
en	buttoN	n	
f	Fight, Fancy	f	
g	Good, Guy	g	
h	Help, Healthy	h	
j	JuDGE	dʒ	Makes 'dg' sound for end of words. like [d][zh] or /dZ/ in xsampa.
k	Kite,Keep	k	
1	Ship, puSH	1	
gl	bi LLI on	٨	Is the "gl" sound in most italian words. (Eg, figli, glielo, maglia)
m	Many, Monkey	m	
n	New, Noun	n	
ny	ca NY on	n	
ng	Winn ing , Camp ING	ŋ	
nx	wi NN er, wo N der		
p	Pa PP er, P ants	p	
r	Random, Rye	,	
rr	Roma, quattRo, morte	r	Trilled/Tapped R
rx	RegaRder, nôtRe	R	Guttural R, Scottish English loch, but voiced
S	Sample, Some	S	
sh	Shiny, Shingle	ſ	
t	Tender, Timing	t	
ts	ca TS	ts	
th	THigh, THing	θ	
V	Vie, Very	v	
W	Will, Wonder	W	
wh	WHy, WHen	W	Without wine-whine merger
X	Jota, baCH, KHamsin	x	
у	Yes, Yatch	j	
z	Zoo, Zone	z	
zh	pleaSure, meaSure	3	The 'judge' example is [j ah d zh], not [j ah zh]. To avoid any confusion.
q	w e-e at, ba TT en	bottom	glottal stop and vowel separator. NOT vocal fry.
dx	buTTer	shuTup	tapped/flapped d/tt. Use in UK English is spotty.

Utility phonemes:

Phonemes that aren't strictly vocal sounds but are useful in one way of another

phoneme	Example	Description
pau	silence	During unsung/silent periods.
exh	[exhale]	end breaths, end of phrase exhale. devoiced. Label consonant coda.
axh	[release]	voiced variation of [exh]. voiced schwa exhale/release. Label as consonant coda.
ct	[closure-toggle]	override the default state of a consonant's closure. Entirely optional.
cl	[held stop]	Held stop/plosive consonant. For when the silence is held. Similar to Japanese usage but not syllabic.
vf	[vocal fry]	vocal fry. Can be used as a consonant OR on it's own note.