

ASEL EXTENDED ENGLISH PHONEME SET

PHONEME	IPA	SAMPA	DESCRIPTION	EXAMPLE
AA	ɑ ɒ	A	low back vowel	ma
AE	æ	{	low front vowel	cat
AI	aɪ	a	diphthong	pie
AH	ʌ	V	central vowel	but
AO	ɔ	O	mid back lax vowel	law
AU	aʊ		diphthong	cow
AX	ə	@	back schwa	about
BB	b	b	bilabial voiced stop	boo
CH	tʃ		voiceless affricate	chew
DD	d	d	alveolar voiced stop	do
DH	ð	D	voiced interdental	this
DX	r		flap	butter
EH	ɛ	E	mid front lax vowel	bet
EI	eɪ	e	mid front tense vowel	bay
EL	l̩		syllabic liquid	bottle
EM	m̩		syllabic m	sarcasm
EN	n̩		syllabic n	button
ER	r̩		syllabic r	better
FF	f	f	voiceless labiodental	foo
GG	g	g	voiced velar stop	goo
HK	k ^h	k_h	aspirated velar stop	key
HP	p ^h	p_h	aspirated bilabial stop	pie
HT	t ^h	t_h	aspirated alveolar stop	tie
HX	h	h	glottal fricative	he
IH	ɪ	I	front high lax vowel	it
II	i	i	front high tense vowel	eat
IX	ɨ		front schwa	roses
JH	dʒ		voiced affricate	joe
JY	j	j	palatal glide	yo
KK	k		unaspirated velar stop	ski
LL	l	l	light l	leaf
LX	ɫ	5	dark l	feel

MM	m	m	bilabial nasal	moo
NN	n	n	alveolar nasal	new
NX	ŋ	N	velar nasal	sing
OU	ou		mid back tense vowel	so
OI	ɔɪ		diphthong	boy
OR	ɔ̞		r-colored back mid vowel	door
PP	p		unaspirated bilabial stop	spy
RR	ɹ	r\	initial r	reef
RX	ɹ or ̚		final r	fear
SH	ʃ		voiceless alveopalatal fr.	shoe
SS	s	s	voiceless alveolar fr.	sue
TH	θ	T	voiceless interdental	think
TQ	ʔ	ʔ	glottalized stop ¹	at alan's
TT	t	t	unaspirated alveolar stop	sty
UH	ʊ	U	back high lax vowel	soot
UW	u	u	back high tense vowel	suit
VV	v	v	voiced labiodental	very
WW	w	w	voiced labio-velar glide	wary
ZZ	z	z	voiced alveolar fr.	zoo
ZH	ʒ	Z	voiced alveopalatal fr.	mirage

¹ We also use this phoneme to indicate places where talkers may introduce glottalization or laryngealization to mark word boundaries where the post boundary word begins with a vowel.