IPA	example	SAM-PA	CELEX	CPA	DISC			
p	pat	р	р	р	р			
b	bad	Ъ	Ъ	Ъ	Ъ			
t	tack	t	t	t	t			
d	dad	d	d	d	d			
k	$\mathbf{cad}$	k	k	k	k			
9	game	g	g	g	g			
ŋ	bang	N	N	N	N			
m	mad	m	m	m	m			
n	nat	n	n	n	n			
1	lad	1	1	1	1			
r	rat	r	r	r	r			
f	fat	f	f	f	f			
V	vat	v	V	v	v			
θ ð	thin	T	T	T	T			
_	then	D	D	D	D			
S	sap	s -	s _	s _	s _			
z ſ	zap sheep	z S	z S	z S	z S			
-		Z	Z	Z	z			
<b>3</b> j	measure yank	j	j	j	j			
J X	loch	у Х	у Х	J X	J X			
h	had	h	h	h	h			
W	why	A	A	11	A II			
W	WIII	10	19	47	19			
ţſ	cheap	tS	tS	T/	J			
ďз	<b>j</b> eep	dΖ	dΖ	J/	_			
ŋ	bacon	N,	N,	N,	С			
ŋ m	idealism	m,	m,	m,	F			
	burde <b>n</b>	n,	n,	n,	H			
ր ļ	dangle	1,	1,	1,	P			
*	fathe <b>r</b>	r*	r*	r*	R			
(possible linking 'r')								

Table 3: Computer phonetic codes for English consonants

'half-open front rounded' vowel sound has been implemented as / (ASCII code 47). The second is a set originally designed for use within CELEX. The third is CPA, the Computer Phonetic Alphabet, or Esprit 291, which was developed in the Ruhr Universität Bochum, Germany.

The fourth set is the DISC set, so called because it is a computer phonetic alphabet made up of distinct single characters. It is fundamentally different from the other three in

IPA	example	SAM-PA	CELEX	CPA	DISC
I	pit	I	I	I	I
ε	$\mathbf{pet}$	E	E	E	Ε
æ	pat	{	<b>&amp;</b> c	^/	{
Λ	$\mathbf{putt}$	V	V	^	V
σ	$\mathbf{pot}$	Q	0	0	Q
ប	$\mathbf{put}$	U	U	U	U
ə	$\mathbf{a}$ noth $\mathbf{e}\mathbf{r}$	Q	Q	Q	0
iĭ	b <b>ea</b> n	i:	i:	i:	i
az	b <b>ar</b> n	A:	A:	A:	#
ΣC	b <b>or</b> n	0:	0:	0:	\$
ux	boon	u:	u:	u:	u
31	b <b>ur</b> n	3:	3:	<b>Q</b> :	3
еI	b <b>ay</b>	eΙ	eΙ	e/	1
aı	buy	aI	aI	a/	2
ΙC	boy	OI	OI	o/	4
υę	no	<b>@</b> U	<b>Q</b> U	0/	5
aυ	brow	aU	<b>a</b> U	A/	6
Ιə	peer	I@	IQ	I/	7
<b>63</b>	p <b>air</b>	E@	E@	E/	8
ບຈ	poor	U@	U <b>@</b>	U/	9
æ	timbre	-{~	& <b>~</b>	^/~	С
ãı	détente	A":	A~:	A~:	q
æ:	lingerie	<b>{~:</b>	& <b>~</b> :	^/ <b>~</b> :	0
ĭã	bouillon	0~:	0":	0":	~

Table 4: Computer phonetic codes for English vowels and diphthongs

that it assigns one ASCII code to each distinct phonological segment in the sound systems of Dutch, English and German. Here segment means a consonant, an affricate, a short vowel, a long vowel or a diphthong. There are two main advantages to this set. First, it provides one character for one segment – in contrast to the other three sets which use extra characters for long vowels, affricates and diphthongs. Second, there is no possibility of ambiguous transcriptions. A diphthong is always shown as a diphthong, and two separate vowels in proximity to each other (say on either side of a syllable boundary) can thus no longer be confused with a real diphthong; an affricate is always shown as such, and not as two consonants. For both these reasons, those interested in processing phonetic transcriptions—as opposed to reading transcriptions in a character set that resembles the familiar