Appendix D

MRPA and IPA Symbols

Symbols have been used in this thesis to represent sound units of speech. The symbols used in the body of the text are those of the alphabet of the International Phonetics Association (IPA). The limitations of the packages used in producing this thesis have forced the symbols of the Machine Readable Phonemic Alphabet (MRPA) to be used in some of the illustrative Figures (marked by an asterisk in the Figure caption). Table D.1 shows the corresponding IPA and MRPA symbols for sound units and gives example words in which the sounds occur in the exemplar languages English, French and Italian (adopted from Hiller *et al.*, 1990).

Symbol		Example Word		
IPA	MRPA	English	French	Italian
[p]	p	**p**ea	**p**ar	co**p**ia[1]
[t]	t	**t**ea	**t**ard	gra**t**o[1]
[k]	k	**k**ey	**c**ar	**ch**iaro[1]
[b]	b	**b**ee	**b**arre	**b**uono[1]
[d]	d	**d**ye	**d**os	**d**ove[1]
[g]	g	**g**uy	**g**are	**g**atto[1]
[ʧ]	ch	ea**ch**	–	**c**ittà[1]
[ʤ]	jh	e**dge**	–	**G**iorgio[1]
[s]	s	**s**ea	**s**i	**s**tanco[1]
[z]	z	**z**oom	**z**ebre	**s**nello
[ʃ]	sh	**sh**e	**ch**at	u**sc**ire
[ʒ]	zh	bei**g**e	**j**eu	–
[ʦ]	ts	–	–	**z**io[1]
[ʣ]	dz	–	–	**z**ero[1]
[f]	f	**f**an	**f**oi	**f**accia[1]
[v]	v	**v**an	**v**in	be**v**e[1]
[θ]	th	**th**in	–	–
[ð]	dh	**th**en	–	–
[h]	h	**h**at	–	–
[m]	m	**m**e	**m**are	**m**angia[1]
[n]	n	**kn**ee	**n**on	va**n**o[1]
[ŋ]	ng	so**ng**	–	–
[ɲ]	ny	–	a**gn**eau	biso**gn**o
[l]	l	**l**ay	**l**e	a**l**ba[1]
[ʎ]	ly	–	–	batta**gl**ia
[r]	r	**r**ay	–	se**r**ata[1]
[ʁ]	R	–	**r**oi	–
[j]	y	**y**es	bi**ll**et	p**i**ù
[ɥ]	yw	–	h**u**it	–
[w]	w	**w**ay	**ou**i	p**u**ò

continued on next page...

[1]The long version of these consonant sounds are marked in MRPA by a *colon* — [bː] b: 'a**bb**azia'.
[2]Centralised.
[3]British English.
[4]American English.

... continued from previous page				
Symbol		Example Word		
IPA	MRPA	English	French	Italian
[i]	`ii`	b**ea**d	l**i**t	p**i**no
[ɪ]	`i`	b**i**d	–	–
[ɨ]	`I`	b**i**d[2]	–	–
[e]	`ee`	–	**été**	l**e**sso
[ɛ]	`e`	b**e**d	s**e**c	l**e**tto
[ɛ̃]	`en`	–	v**in**	–
[ɑ]	`aa`	b**ar**d	gr**a**s	–
[a]	`a`	b**a**d[3]	l**a**	f**a**ccia
[ã]	`an`	–	gr**an**d	–
[æ]	`ah`	s**a**d[4]	–	–
[ɜ]	`@@`	b**ir**d[3]	–	–
[ɚ]	`@r`	w**or**d[4]	–	–
[ə]	`@`	**a**bout	–	–
[ʌ]	`uh`	b**u**d	–	–
[u]	`uu`	b**oo**t	l**ou**p	**u**no
[ʉ]	`u"`	b**oo**t[2]	–	–
[ʊ]	`u`	p**u**t	–	–
[y]	`yy`	–	s**u**r	–
[ø]	`eu`	–	f**eu**	–
[œ]	`oe`	–	c**oeu**r	–
[œ̃]	`oen`	–	comm**un**	–
[o]	`O`	–	**eau**	t**o**rre
[õ]	`on`	–	p**on**t	–
[ɔ]	`oo`	p**or**t	f**o**rt	t**o**sto
[ɒ]	`o`	p**o**t	–	–
[eɪ]	`ei`	b**ay**	–	qu**ei**
[aɪ]	`ai`	b**uy**	–	s**ai**
[ɔɪ]	`oi`	b**oy**	–	–
[əʊ]	`ou`	g**o**	–	–
[aʊ]	`au`	b**ow**	–	l**au**rea
[ɪə]	`i@`	b**eer**[3]	–	–
[ɛə]	`e@`	b**are**[3]	–	–
[ʊə]	`u@`	p**oor**[3]	–	–
[ʔ]	`?`	*glottal stop*		
[ˈ]	`'`	*primary stress*		
[ˌ]	`"`	*secondary stress*		
[̥]	`*`	*tertiary stress*		

Table D.1: IPA/MRPA Symbols

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