

汉语拼音方案	国语注音符号第一式	华语通用拼音	威妥玛拼音	国语注音符号第二式	耶鲁拼音	法国远东学院拼音
a	ㄚ	a	a	a	a	a
ai	ㄞ	ai	ai	ai	ai	ngai
an	ㄢ	an	an	an	an	ngan
ang	ㄤ	ang	ang	ang	ang	ngang
ao	ㄠ	ao	ao	au	au	ngao
ba	ㄅㄚ	ba	pa	ba	ba	pa
bai	ㄅㄞ	bai	pai	bai	bai	pai
ban	ㄅㄢ	ban	pan	ban	ban	pan
bang	ㄅㄤ	bang	pang	bang	bang	pang
bao	ㄅㄠ	bao	pao	bau	bau	pao
bei	ㄅㄟ	bei	pei	bei	bei	pei
ben	ㄅㄣ	ben	pên	ben	ben	pen
beng	ㄅㄥ	beng	pêng	beng	beng	peng
bi	ㄅㄧ	bi	pi	bi	bi	pi
bian	ㄅㄧㄢ	bian	pien	bian	byan	pien
biao	ㄅㄧㄠ	biao	piao	biau	byau	piao
bie	ㄅㄧㄝ	bie	pieh	bie	bye	pie
bin	ㄅㄧㄣ	bin	pin	bin	bin	pin
bing	ㄅㄧㄥ	bing	ping	bing	bing	ping
bo	ㄅㄛ	bo	po	bo	bwo	po
bu	ㄅㄨ	bu	pu	bu	bu	pou
ca	ㄘㄚ	ca	ts' a	tsa	tsa	ts'a
cai	ㄘㄞ	cai	ts' ai	tsai	tsai	ts'ai
can	ㄘㄢ	can	ts' an	tsan	tsan	ts'an
cang	ㄘㄤ	cang	ts' ang	tsang	tsang	ts'ang
cao	ㄘㄠ	cao	ts' ao	tsau	tsau	ts'ao
ce	ㄘㄜ	ce	ts' ê	tse	tse	ts'ö
cen	ㄘㄣ	cen	ts' ên	tsen	tsen	ts'en
ceng	ㄘㄥ	ceng	ts' êng	tseng	tseng	ts'eng

cha	ㄔㄚ	cha	ch'a	cha	cha	tch'a
chai	ㄔㄞ	chai	ch'ai	chai	chai	tch'ai
chan	ㄔㄢ	chan	ch'an	chan	chan	tch'an
chang	ㄔㄤ	chang	ch'ang	chang	chang	tch'ang
chao	ㄔㄠ	chao	ch'ao	chau	chau	tch'ao
che	ㄔㄜ	che	ch'ê	che	che	tch'ö
chen	ㄔㄣ	chen	ch'ên	chen	chen	tch'en
cheng	ㄔㄥ	cheng	ch'êng	cheng	cheng	tch'eng
chi	ㄔ	chih	ch'ih	chr	chr	tch'e
chong	ㄔㄨㄥ	chong	ch'ung	chung	chung	tch'ong
chou	ㄔㄨ	chou	ch'ou	chou	chou	tch'eou
chu	ㄔㄨ	chu	ch'u	chu	chu	tch'ou
chua	ㄔㄨㄚ	chua	ch'ua	chua	chwa	tch'oua
chuai	ㄔㄨㄞ	chuai	ch'uai	chuai	chwai	tch'ouai
chuan	ㄔㄨㄢ	chuan	ch'uan	chuan	chwan	tch'ouan
chuang	ㄔㄨㄤ	chuang	ch'uang	chuang	chwang	tch'ouang
chui	ㄔㄨㄟ	chuei	ch'ui	chuei	chwei	tch'ouei
chun	ㄔㄨㄣ	chun	ch'un	chuen	chwun	tch'ouen
chuo	ㄔㄨㄛ	chuo	ch'o	chuo	chwo	tch'ouo
ci	ㄘ	cih	tz'ü	tsz	tsz	ts'eu
cong	ㄘㄨㄥ	cong	ts'ung	tsung	tsung	ts'ong
cou	ㄘㄨ	cou	ts'ou	tsou	tsou	ts'eou
cu	ㄘㄨ	cu	ts'u	tsu	tsu	ts'ou
cuan	ㄘㄨㄢ	cuan	ts'uan	tsuan	tswan	ts'ouan
cui	ㄘㄨㄟ	cuei	ts'ui	tsuei	tswei	ts'ouei
cun	ㄘㄨㄣ	cun	ts'un	tsuen	tswun	ts'ouen
cuo	ㄘㄨㄛ	cuo	ts'o	tsuo	tswu	ts'o
da	ㄉㄚ	da	ta	da	da	ta
dai	ㄉㄞ	dai	tai	dai	dai	tai
dan	ㄉㄢ	dan	tan	dan	dan	tan

dang	ㄉㄤ	dang	tang	dang	dang	tang
dao	ㄉㄠ	dao	tao	dau	dau	tao
de	ㄉㄜ	de	tê	de	de	tö
dei	ㄉㄟ	dei	tei	dei	dei	tei
den	ㄉㄣ	den	tên	den	den	
deng	ㄉㄥ	deng	têng	deng	deng	teng
di	ㄉㄧ	di	ti	di	di	ti
dian	ㄉㄧㄢ	dian	tien	dian	dyan	tien
diang	ㄉㄧㄤ	diang	tiang	diang	dyang	tiang
diao	ㄉㄧㄠ	diao	tiao	diau	dyau	tiao
die	ㄉㄧㄝ	die	tieh	die	dye	tie
ding	ㄉㄧㄥ	ding	ting	dīng	ding	ting
diu	ㄉㄧㄡ	diou	tiu	diou	dyou	tieou
dong	ㄉㄨㄥ	dong	tung	dung	dung	tong
dou	ㄉㄨ	dou	tou	dou	dou	teou
du	ㄉㄨ	du	tu	du	du	tou
duan	ㄉㄨㄢ	duan	tuan	duan	dwan	touan
dui	ㄉㄨㄟ	duei	tui	duei	dwei	touei
dun	ㄉㄨㄣ	dun	tun	duen	dwun	touen
duo	ㄉㄨㄛ	duo	to	duo	dwo	to
e	ㄜ	e	ê/o	e	e	ngo
ê	ㄝ	e	eh	ê	e	
ei	ㄟ	ei	ei	ei	ei	ei
en	ㄣ	en	ên	en	en	ngen
eng	ㄥ	ong	êng	eng	eng	ngeng
er	ㄦ	er	êrh	er	er	eul
fa	ㄈㄚ	fa	fa	fa	fa	fa
fan	ㄈㄢ	fan	fan	fan	fan	fan
fang	ㄈㄤ	fang	fang	fang	fang	fang
fei	ㄈㄟ	fei	fei	fei	fei	fei

fen	ㄈㄣˊ	fen	fên	fen	fen	fen
feng	ㄈㄥˊ	fong	fêng	feng	feng	feng
fo	ㄈㄛˊ	fo	fo	fo	fwo	fo
fou	ㄈㄡˊ	fou	fou	fou	fou	feou
fu	ㄈㄨˊ	fu	fu	fu	fu	fou
ga	ㄍㄚˊ	ga	ka	ga	ga	ka
gai	ㄍㄞˊ	gai	kai	gai	gai	kai
gan	ㄍㄢˊ	gan	kan	gan	gan	kan
gang	ㄍㄤˊ	gang	kang	gang	gang	kang
gao	ㄍㄠˊ	gao	kao	gau	gau	kao
ge	ㄍㄜˊ	ge	ko	ge	ge	kö
gei	ㄍㄟˊ	gei	kei	gei	gei	kei
gen	ㄍㄣˊ	gen	kên	gen	gen	ken
geng	ㄍㄥˊ	geng	kêng	geng	geng	keng
gong	ㄍㄨㄥˊ	gong	kung	gung	gung	kong
gou	ㄍㄡˊ	gou	kou	gou	gou	keou
gu	ㄍㄨˊ	gu	ku	gu	gu	kou
gua	ㄍㄨㄚˊ	gua	kua	gua	gwa	koua
guai	ㄍㄨㄞˊ	guai	kuai	guai	gwai	kouai
guan	ㄍㄨㄢˊ	guan	kuan	guan	gwan	kouan
guang	ㄍㄨㄤˊ	guang	kuang	guang	gwang	kouang
gui	ㄍㄨㄟˊ	guei	kuei	guei	gwei	kouei
gun	ㄍㄨㄣˊ	gun	kun	guen	gwun	kouen
guo	ㄍㄨㄛˊ	guo	kuo	guo	gwo	kouo
ha	ㄏㄚˊ	ha	ha	ha	ha	ha
hai	ㄏㄞˊ	hai	hai	hai	hai	hai
han	ㄏㄢˊ	han	han	han	han	han
hang	ㄏㄤˊ	hang	hang	hang	hang	hang
hao	ㄏㄠˊ	hao	hao	hau	hau	hao
he	ㄏㄜˊ	he	ho	he	he	hö

hei	ㄏㄟ	hei	hei	hei	hei	hei
hen	ㄏㄣˊ	hen	hên	hen	hen	hen
heng	ㄏㄥˊ	heng	hêng	heng	heng	heng
hong	ㄏㄨㄥˊ	hong	hung	hung	hung	hong
hou	ㄏㄡˊ	hou	hou	hou	hou	heou
hu	ㄏㄨˊ	hu	hu	hu	hu	hou
hua	ㄏㄨㄚˊ	hua	hua	hua	hwa	houa
huai	ㄏㄨㄞˊ	huai	huai	huai	hwai	houai
huan	ㄏㄨㄢˊ	huan	huan	huan	hwan	houan
huang	ㄏㄨㄤˊ	huang	huang	huang	hwang	houang
hui	ㄏㄨㄟˊ	huei	hui	huei	hwei	houei
hun	ㄏㄨㄣˊ	hun	hun	huen	hwun	houen
huo	ㄏㄨㄛˊ	huo	huo	huo	hwo	houo
ji	ㄐㄧ	ji	chi	ji	ji	ki
jia	ㄐㄧㄚˊ	jia	chia	jia	jya	kia
jian	ㄐㄧㄢˊ	jian	chien	jian	jyan	kien
jiang	ㄐㄧㄤˊ	jiang	chiang	jiang	jyang	kiang
jiao	ㄐㄧㄠˊ	jiao	chiao	jiau	jyau	kiao
jie	ㄐㄧㄝˊ	jie	chieh	jie	jye	kie
jin	ㄐㄧㄣˊ	jin	chin	jin	jîn	kin
jing	ㄐㄧㄥˊ	jing	ching	jing	jîng	king
jiong	ㄐㄩㄥˊ	jyong	chiung	jiung	jyung	kiong
jiu	ㄐㄩˊ	jiou	chiu	jiou	jyou	kieou
ju	ㄐㄩˊ	jyu	chü	jiu	jyu	kiu
juan	ㄐㄩㄢˊ	jyuan	chüan	jiuan	jywan	kiuan
jue	ㄐㄩㄝˊ	jyue	chüeh	jiue	jywe	kiue
jun	ㄐㄩㄣˊ	jyun	chün	jiun	jyun	kiun
ka	ㄎㄚˊ	ka	k'a	ka	ka	k'a
kai	ㄎㄞˊ	kai	k'ai	kai	kai	k'ai
kan	ㄎㄢˊ	kan	k'an	kan	kan	k'an

kang	ㄎㄤ	kang	k'ang	kang	kang	k'ang
kao	ㄎㄠ	kao	k'ao	kau	kau	k'ao
ke	ㄎㄜ	ke	k'o	ke	ke	k'ö
kei	ㄎㄟ	kei	k'ei	kei	kei	
ken	ㄎㄣ	ken	k'ên	ken	ken	k'en
keng	ㄎㄥ	keng	k'êng	keng	keng	k'eng
kong	ㄎㄨㄥ	kong	k'ung	kung	kung	k'ong
kou	ㄎㄡ	kou	k'ou	kou	kou	k'eou
ku	ㄎㄨ	ku	k'u	ku	ku	k'ou
kua	ㄎㄨㄚ	kua	k'ua	kua	kwa	k'oua
kuai	ㄎㄨㄞ	kuai	k'uai	kuai	kwai	k'ouai
kuan	ㄎㄨㄢ	kuan	k'uan	kuan	kwan	k'ouan
kuang	ㄎㄨㄤ	kuang	k'uang	kuang	kwang	k'ouang
kui	ㄎㄨㄟ	kuei	k'uei	kuei	kwei	k'ouei
kun	ㄎㄨㄣ	kun	k'un	kuen	kwun	k'ouen
kuo	ㄎㄨㄛ	kuo	k'uo	kuo	kwo	k'ouo
la	ㄌㄚ	la	la	la	la	la
lai	ㄌㄞ	lai	lai	lai	lai	lai
lan	ㄌㄢ	lan	lan	lan	lan	lan
lang	ㄌㄤ	lang	lang	lang	lang	lang
lao	ㄌㄠ	lao	lao	lau	lau	lao
le	ㄌㄜ	le	lê	le	le	lö
lei	ㄌㄟ	lei	lei	lei	lei	lei
leng	ㄌㄥ	leng	lêng	leng	leng	leng
li	ㄌㄧ	li	li	li	li	li
lia	ㄌㄧㄚ	lia	lia	lia	lya	lea
lian	ㄌㄧㄢ	lian	lien	lian	lyan	lien
liang	ㄌㄧㄤ	liang	liang	liang	lyang	leang
liao	ㄌㄧㄠ	liao	liao	liau	lyau	liao
lie	ㄌㄧㄝ	lie	lieh	lie	lye	lie

lin	ㄌㄧㄣˊ	lin	lin	lin	lin	lin
ling	ㄌㄧㄥˊ	ling	ling	ling	ling	ling
liu	ㄌㄧㄡˊ	liou	liu	liou	lyou	lieou
lo	ㄌㄛˊ	lo	lo	lo	lo	lo
long	ㄌㄨㄥˊ	long	lung	lung	lung	long
lou	ㄌㄡˊ	lou	lou	lou	lou	leou
lu	ㄌㄨˊ	lu	lu	lu	lu	lou
lū	ㄌㄨˊ	lyu	lū	liu	lyu	liu
luan	ㄌㄨㄢˊ	luan	luan	luan	lwan	louan
lūan	ㄌㄨㄢˊ	lyuan	lūan	liuan	lwan?	liuan
lue	ㄌㄨㄝˊ	lyue	lüh	liue	lywe	liue
lun	ㄌㄨㄣˊ	lun	lun	luen	lwun	loun
lūn	ㄌㄨㄣˊ	lyun	lūn	liun	lyun	liun
luo	ㄌㄨㄛˊ	luo	lo	luo	lwo	louo
ma	ㄇㄚˊ	ma	ma	ma	ma	ma
mai	ㄇㄞˊ	mai	mai	mai	mai	mai
man	ㄇㄢˊ	man	man	man	man	man
mang	ㄇㄤˊ	mang	mang	mang	mang	mang
mao	ㄇㄠˊ	mao	mao	mau	mau	mao
me	ㄇㄟˊ	me	mê	me	me	mö
mei	ㄇㄟˊ	mei	mei	mei	mei	mei
men	ㄇㄣˊ	men	mên	men	men	men
meng	ㄇㄥˊ	meng	mêng	meng	meng	meng
mi	ㄇㄧˊ	mi	mi	mi	mi	mi
mian	ㄇㄧㄢˊ	mian	mien	mian	myan	mian
miao	ㄇㄧㄠˊ	miao	miao	miau	myau	miao
mie	ㄇㄧㄝˊ	mie	mieh	mie	mye	mie
min	ㄇㄧㄣˊ	min	min	min	min	min
ming	ㄇㄧㄥˊ	ming	ming	ming	ming	ming
miu	ㄇㄧㄡˊ	miou	miu	miou	myou	mieou

mo	ㄇㄛ	mo	mo	mo	mwo	mo
mou	ㄇㄡ	mou	mou	mou	mou	meou
mu	ㄇㄨ	mu	mu	mu	mu	mou
na	ㄋㄚ	na	na	na	na	na
nai	ㄋㄞ	nai	nai	nai	nai	nai
nan	ㄋㄢ	nan	nan	nan	nan	nan
nang	ㄋㄤ	nang	nang	nang	nang	nang
nao	ㄋㄠ	nao	nao	nau	nau	nao
ne	ㄋㄝ	ne	nê	ne	ne	nö
nei	ㄋㄟ	nei	nei	nei	nei	nei
nen	ㄋㄢ	nen	nên	nen	nen	nen
neng	ㄋㄥ	neng	nêng	neng	neng	neng
ni	ㄋㄧ	ni	ni	ni	ni	ni
nia	ㄋㄧㄚ	nia	nia	nia	nya	nia
nian	ㄋㄧㄢ	nian	nien	nian	nyan	nien
niang	ㄋㄧㄤ	niang	niang	niang	nyang	niang
niao	ㄋㄧㄠ	niao	niao	niau	nyau	niao
nie	ㄋㄧㄝ	nie	nieh	nie	nye	nie
nin	ㄋㄧㄢ	nin	nin	nin	nin	nin
ning	ㄋㄧㄥ	ning	ning	ning	ning	ning
niu	ㄋㄧㄡ	niou	niu	niou	nyou	nieou
nong	ㄋㄨㄥ	nong	nung	nung	nung	nong
nou	ㄋㄡ	nou	nou	nou	nou	neou
nu	ㄋㄨ	nu	nu	nu	nu	nou
nü	ㄋㄩ	nyu	nü	niu	nyu	niu
nuan	ㄋㄨㄢ	nuan	nuan	nuan	nwan	nouan
nüe	ㄋㄩㄝ	nyue	nüeh	niue	nywe	nio
nun	ㄋㄨㄢ	nun	nun	nuen	nwun	nouen
nuo	ㄋㄨㄛ	nuo	no	nuo	nwo	no
o	ㄛ	o	o	o	o?	o

ou	ㄅ	ou	ou	ou	ou	ngeou
pa	ㄆㄚ	pa	p'a	pa	pa	p'a
pai	ㄆㄞ	pai	p'ai	pai	pai	p'ai
pan	ㄆㄢ	pan	p'an	pan	pan	p'an
pang	ㄆㄤ	pang	p'ang	pang	pang	p'ang
pao	ㄆㄠ	pao	p'ao	pau	pau	p'ao
pei	ㄆㄟ	pei	p'ei	pei	pei	p'ei
pen	ㄆㄣ	pen	p'en	pen	pen	p'en
peng	ㄆㄥ	peng	p'eng	peng	peng	p'eng
pi	ㄆㄧ	pi	p'i	pi	pi	p'i
pian	ㄆㄧㄢ	pian	p'ien	pian	pyan	p'ien
piao	ㄆㄧㄠ	piao	p'iao	piau	pyau	p'iao
pie	ㄆㄧㄝ	pie	p'ieh	pie	pye	p'ie
pin	ㄆㄧㄣ	pin	p'in	pin	pin	p'in
ping	ㄆㄧㄥ	ping	p'ing	ping	ping	p'ing
po	ㄆㄛ	po	p'o	po	pwo	p'o
pou	ㄆㄡ	pou	p'ou	pou	pou	p'eou
pu	ㄆㄨ	pu	p'u	pu	pu	p'ou
qi	ㄑㄧ	ci	ch'i	chi	chi	k'i
qia	ㄑㄧㄚ	cia	ch'ia	chia	chya	k'ia
qian	ㄑㄧㄢ	cian	ch'ien	chian	chyan	k'ien
qiang	ㄑㄧㄤ	ciang	ch'iang	chiang	chyang	k'iang
qiao	ㄑㄧㄠ	ciao	ch'iao	chiau	chyau	k'iao
qie	ㄑㄧㄝ	cie	ch'ieh	chie	chye	k'ie
qin	ㄑㄧㄣ	cin	ch'in	chin	chin	k'in
qing	ㄑㄧㄥ	cing	ch'ing	ching	ching	k'ing
qiong	ㄑㄩㄥ	cyong	ch'iung	chiung	chyung	k'iong
qiu	ㄑㄩ	ciou	ch'iu	chiou	chyou	k'ieou
qu	ㄑㄩ	cyu	ch'ü	chiu	chyu	k'iu
quan	ㄑㄩㄢ	cyuan	ch'üan	chiuan	chywan	k'iuan

que	ㄑㄩㄝˊ	cyue	ch'üeh	chiue	chywe	k'iue
qun	ㄑㄩㄣˊ	cyun	ch'ün	chiun	chyun	k'iun
ran	ㄖㄢˊ	ran	jan	ran	ran	jan
rang	ㄖㄤˊ	rang	jang	rang	rang	jang
rao	ㄖㄠˊ	rao	jao	rau	rau	jao
re	ㄖㄜˊ	re	jê	re	re	jö
ren	ㄖㄣˊ	ren	jên	ren	ren	jen
reng	ㄖㄥˊ	reng	jêng	reng	reng	jeng
ri	ㄖㄩˊ	rih	jih	r	r	je
rong	ㄖㄨㄥˊ	rong	jung	rung	rung	jong
rou	ㄖㄡˊ	rou	jou	rou	rou	jeou
ru	ㄖㄨˊ	ru	ju	ru	ru	jou
ruan	ㄖㄨㄢˊ	ruan	juan	ruan	rwan	jouan
rui	ㄖㄨㄟˊ	ruei	jui	ruei	rwei	jouei
run	ㄖㄨㄣˊ	run	jun	ruen	rwun	jouen
ruo	ㄖㄨㄛˊ	ruo	jo	ruo	rwo	jo
sa	ㄙㄚˊ	sa	sa	sa	sa	sa
sai	ㄙㄞˊ	sai	sai	sai	sai	sai
san	ㄙㄢˊ	san	san	san	san	san
sang	ㄙㄤˊ	sang	sang	sang	sang	sang
sao	ㄙㄠˊ	sao	sao	sau	sau	sao
se	ㄙㄜˊ	se	sê	se	se	sö
sei	ㄙㄟˊ	sei	sei	sei	sei	
sen	ㄙㄣˊ	sen	sên	sen	sen	sên
seng	ㄙㄥˊ	seng	sêng	seng	seng	sêng
sha	ㄕㄚˊ	sha	sha	sha	sha	cha
shai	ㄕㄞˊ	shai	shai	shai	shai	chai
shan	ㄕㄢˊ	shan	shan	shan	shan	chan
shang	ㄕㄤˊ	shang	shang	shang	shang	chang
shao	ㄕㄠˊ	shao	shao	shau	shau	chao

she	尸ㄷ	she	shê	she	she	chö
shei	尸ㄟ	shei	shei	shei	shei	chei
shen	尸ㄣ	shen	shên	shen	shen	chen
sheng	尸ㄥ	sheng	shêng	sheng	sheng	cheng
shi	尸	shih	shih	shr	shr	che
shong	尸×ㄥ	shong	shung	shung	shung	
shou	尸又	shou	shou	shou	shou	cheou
shu	尸×	shu	shu	shu	shu	chou
shua	尸×ㄚ	shua	shua	shua	shwa	choua
shuai	尸×ㄎ	shuai	shuai	shuai	shwai	chouai
shuan	尸×ㄣ	shuan	shuan	shuan	shwan	chouan
shuang	尸×ㄨ	shuang	shuang	shuang	shwang	chouang
shui	尸×ㄟ	shuei	shui	shuei	shwei	chouei
shun	尸×ㄣ	shun	shun	shuen	shwun	chouen
shuo	尸×ㄷ	shuo	shuo	shuo	shwo	chouo
si	ㄥ	sih	ssũ	sz	sz	sseu
song	ㄥ×ㄥ	song	sung	sung	sung	song
sou	ㄥ又	sou	sou	sou	sou	seou
su	ㄥ×	su	su	su	su	sou
suan	ㄥ×ㄣ	suan	suan	suan	swan	souan
sui	ㄥ×ㄟ	suei	sui	suei	swei	souei
sun	ㄥ×ㄣ	sun	sun	suen	swun	souen
suo	ㄥ×ㄷ	suo	so	suo	swö	so
ta	ㄨㄚ	ta	t'a	ta	ta	t'a
tai	ㄨㄎ	tai	t'ai	tai	tai	t'ai
tan	ㄨㄣ	tan	t'an	tan	tan	t'an
tang	ㄨㄨ	tang	t'ang	tang	tang	t'ang
tao	ㄨㄠ	tao	t'ao	tau	tau	t'ao
te	ㄨㄷ	te	t'ê	te	te	t'ö
tei	ㄨㄟ	tei	t'ei	tei	tei	t'ei

teng	ㄊㄥ	teng	t'êng	teng	teng	t'eng
ti	ㄊㄧ	ti	t'i	ti	ti	t'i
tian	ㄊㄧㄢ	tian	t'ien	tian	tyan	t'ien
tiao	ㄊㄧㄠ	tiao	t'iao	tiau	tyau	t'iao
tie	ㄊㄧㄝ	tie	t'ieh	tie	tye	t'ie
ting	ㄊㄧㄥ	ting	t'ing	ting	ting	t'ing
tong	ㄊㄨㄥ	tong	t'ung	tung	tung	t'ong
tou	ㄊㄨ	tou	t'ou	tou	tou	t'eou
tu	ㄊㄨ	tu	t'u	tu	tu	t'ou
tuan	ㄊㄨㄢ	tuan	t'uan	tuan	twan	t'ouan
tui	ㄊㄨㄟ	tuei	t'ui	tuei	twei	t'ouei
tun	ㄊㄨㄣ	tun	t'un	tuen	twun	t'ouen
tuo	ㄊㄨㄛ	tuo	t'o	tuo	two	t'o
wa	ㄨㄚ	wa	wa	wa	wa	wa
wai	ㄨㄞ	wai	wai	wai	wai	wai
wan	ㄨㄢ	wan	wan	wan	wan	wan
wang	ㄨㄤ	wang	wang	wang	wang	wang
wei	ㄨㄟ	wei	wei	wei	wei	wei
wen	ㄨㄣ	wun	wên	wen	wen	wen
weng	ㄨㄥ	wong	wêng	weng	weng	weng
wo	ㄨㄛ	wo	wo	wo	wo	wo
wu	ㄨ	wu	wu	wu	wu	wou
xi	ㄒㄧ	si	hsi	shi	syi	hi
xia	ㄒㄧㄚ	sia	hsia	shia	sya	hia
xian	ㄒㄧㄢ	sian	hsien	shian	syian	hie
xiang	ㄒㄧㄤ	siang	hsiang	shiang	syang	hiang
xiao	ㄒㄧㄠ	siao	hsiao	shiau	syau	hiao
xie	ㄒㄧㄝ	sie	hsieh	shie	syie	hien
xin	ㄒㄧㄣ	sin	hsin	shin	syin	hin
xing	ㄒㄧㄥ	sing	hsing	shing	sying	hing

xiong	ㄒㄩㄥ	syong	hsiung	shiung	syung	hiong
xiu	ㄒㄩㄟ	siou	hsiu	shiou	syou	hieou
xu	ㄒㄩ	syu	hsü	shiu	syu	hiu
xuan	ㄒㄩㄢ	syuan	hsüan	shiuan	sywan	hiuan
xue	ㄒㄩㄝ	syue	hsüeh	shiue	sywe	hiue
xun	ㄒㄩㄣ	syun	hsün	shiun	syun	hiun
ya	ㄚ	ya	ya	ya	ya	ya
yan	ㄚㄢ	yan	yen	yan	yan	yen
yang	ㄚㄥ	yang	yang	yang	yang	yang
yao	ㄚㄠ	yao	yao	yau	yau	yao
ye	ㄚㄝ	ye	yeh	ye	ye	ye
yi	ㄚㄣ	yi	i/yi	yi	yi	yi
yin	ㄚㄣ	yin	yin	yin	yin	yin
ying	ㄚㄥ	ying	ying	ying	ying	ying
yong	ㄚㄥ	yong	yung	yung	yung	yong
you	ㄚㄠ	you	yu	you	you	yeou
yu	ㄚ	yu	yü	yu	yu	yu
yuan	ㄚㄢ	yuan	yüan	yuan	ywan	yuan
yue	ㄚㄝ	yue	yüeh	yue	ywe	yue
yun	ㄚㄣ	yun	yün	yun	yun	yun
za	ㄗㄚ	za	tsa	tza	dza	tsa
zai	ㄗㄞ	zai	tsai	tzai	dzai	tsai
zan	ㄗㄢ	zan	tsan	tzan	dzan	tsan
zang	ㄗㄥ	zang	tsang	tzang	dzang	tsang
zao	ㄗㄠ	zao	tsao	tzau	dzau	tsao
ze	ㄗㄝ	ze	tsê	tze	dze	tsö
zei	ㄗㄟ	zei	tsei	tzei	dzei	tsei
zen	ㄗㄣ	zen	tsên	tzen	dzen	tsen
zeng	ㄗㄥ	zeng	tsêng	tzeng	dzeng	tseng
zha	ㄗㄚ	jha	cha	ja	ja	tcha

zhai	ㄗㄞ	jhai	chai	jai	jai	tchai
zhan	ㄗㄢ	jhan	chan	jan	jan	tchan
zhang	ㄗㄤ	jhang	chang	jang	jang	tchang
zhao	ㄗㄠ	jhao	chao	jau	jau	tchao
zhe	ㄗㄜ	jhe	chê	je	je	tchö
zhei	ㄗㄟ	jhei	chei	jei	jei	tchei
zhen	ㄗㄣˊ	jhen	chên	jen	jen	tchen
zheng	ㄗㄥˊ	jheng	chêng	jeng	jeng	tcheng
zhi	ㄗ	jhih	chih	jr	jr	tche
zhong	ㄗㄨㄥ	jhong	chung	jung	jung	tchong
zhou	ㄗㄡ	jhou	chou	jou	jou	tcheou
zhu	ㄗㄨ	jhu	chu	ju	ju	tchou
zhua	ㄗㄨㄚ	jhua	chua	jua	jwa	tchoua
zhuai	ㄗㄨㄞ	jhuai	chuai	juai	jwai	tchouai
zhuan	ㄗㄨㄢ	jhuan	chuan	juan	jwan	tchouan
zhuang	ㄗㄨㄤ	jhuang	chuang	juang	jwang	tchouang
zhui	ㄗㄨㄟ	jhuei	chui	juei	jwei	tchouei
zhun	ㄗㄨㄣˊ	jhun	chun	juen	jwun	tchouen
zhuo	ㄗㄨㄛ	jhuo	cho	juo	jwo	tchouo
zi	ㄗ	zih	tzǔ	tz	dz	tseu
zong	ㄗㄨㄥ	zong	tsung	tzung	dzung	tsong
zou	ㄗㄡ	zou	tsou	tzou	dzou	tseou
zu	ㄗ	zu	tsu	tzu	dzu	tsou
zuan	ㄗㄨㄢ	zuan	tsuan	tzuan	dzwan	tsouan
zui	ㄗㄨㄟ	zuei	tsui	tzuei	dzwei	tsouei
zun	ㄗㄨㄣˊ	zun	tsun	tzuen	dzwun	tsouen

德国式拼音	国语罗马字				Opencpop	IPA	IPA全切分	MFA pinyin
a	a	ar	aa	ah	a	a	a	a
ai	ai	air	ae	ay	ai	ai	a i	ai
an	an	arn	aan	ann	a n	an	a n	a n
ang	ang	arng	aang	anq	a ng	aŋ	a ɲ	a ng
au	au	aur	ao	aw	ao	au	a u	ao
ba	ba	bar	baa	bah	b a	pa	p a	b a
bai	bai	bair	bae	bay	b ai	pai	p a i	b ai
ban	ban	barn	baan	bann	b a n	pan	p a n	b a n
bang	bang	barng	baang	banq	b a ng	paŋ	p a ɲ	b a ng
bau	bau	baur	bao	baw	b ao	pau	p a u	b ao
be	bei	beir	beei	bey	b ei	pei	p e i	b ei
bĕn	ben	bern	been	benn	b e n	pən	p ə n	b e n
bĕng	beng	berng	beeng	benq	b e ng	pəŋ	p ə ɲ	b e ng
bi	bi	byi	bii	bih	b i	pi	p i	b i
biǎn	bian	byan	bean	biann	b ia n	piɛn	p i ɛ n	b ia n
biau	biau	byau	beau	biaw	b iao	piau	p i a u	b iao
biä	bie	bye	biee	bieh	b ie	pie	p i e	b ie
bin	bin	byn	biin	binn	b i n	pin	p i n	b i n
bing	bing	byng	biing	binq	b i ng	piŋ	p i ɲ	b i ng
bo	bo	bor	boo	boh	b o	puo	p u o	b o
bu	bu	bwu	buu	buh	b u	pu	p u	b u
tsa	tsa	tsar	tsaa	tsah	c a	ts ^h a	ts ^h a	c a
tsai	tsai	tsair	tsae	tsay	c ai	ts ^h ai	ts ^h a i	c ai
tsan	tsan	tsarn	tsaan	tsann	c a n	ts ^h an	ts ^h a n	c a n
tsang	tsang	tsarng	tsaang	tsanq	c a ng	ts ^h aŋ	ts ^h a ɲ	c a ng
tsau	tsau	tsaur	tsao	tsaw	c ao	ts ^h au	ts ^h a u	c ao
tsö	tse	tser	tsee	tseh	c e	ts ^h ɤ	ts ^h ɤ	c e
tsĕn	tsen	tsern	tseen	tsenn	c e n	ts ^h ən	ts ^h ə n	c e n
tsĕng	tseng	tserng	tseeng	tsenq	c e ng	ts ^h əŋ	ts ^h ə ɲ	c e ng

tscha	cha	char	chaa	chah	ch a	tɕʰa	tɕʰ a	ch a
tschai	chai	chair	chae	chay	ch ai	tɕʰai	tɕʰ a i	ch ai
tschan	chan	charn	chaan	chanr	ch a n	tɕʰan	tɕʰ a n	ch a n
tschang	chang	charng	chaang	chanc	ch a ng	tɕʰaŋ	tɕʰ a ŋ	ch a ng
tschau	chau	chaur	chao	chaw	ch ao	tɕʰau	tɕʰ a u	ch ao
tschö	che	cher	chee	cheh	ch e	tɕʰɤ	tɕʰ ɤ	ch e
tschën	chen	chern	cheen	chenr	ch e n	tɕʰən	tɕʰ ə n	ch e n
tschëng	cheng	cherng	cheeng	chenc	ch e ng	tɕʰəŋ	tɕʰ ə ŋ	ch e ng
tschi	chy	chyr	chyy	chyh	ch ii	tɕʰi	tɕʰ i	ch ii
tschung	chong	chorng	choong	chonc	ch o ng	tɕʰoŋ	tɕʰ ɔ ŋ	ch o ng
tschou	chou	chour	choou	chow	ch ou	tɕʰou	tɕʰ o u	ch ou
tschu	chu	chwu	chuu	chuh	ch u	tɕʰu	tɕʰ u	ch u
tschua	chua	chuar	chuaa	chuah	#N/A	tɕʰua	tɕʰ u a	#N/A
tschuai	chuai	chwai	choai	chuay	ch uai	tɕʰuai	tɕʰ u a i	ch uai
tschuan	chuan	chwan	choan	huanr	ch ua n	tɕʰuan	tɕʰ u a n	ch ua n
tschuang	chuang	chwang	choang	huanr	ch ua ng	tɕʰuaŋ	tɕʰ u a ŋ	ch ua ng
tschui	chuei	chwei	choei	chuey	ch uei	tɕʰuei	tɕʰ u e i	ch uei
tschun	chuen	chwen	choen	huenr	ch ue n	tɕʰuən	tɕʰ u ə n	ch ue n
tscho	chuo	chwo	chuoo	chuoh	ch uo	tɕʰuo	tɕʰ u o	ch uo
tsi	tsy	tsyr	tsyy	tsyh	c ii	tsʰi	tsʰ i	c ii
tsung	tsong	tsorng	tsoong	tsongr	c o ng	tsʰoŋ	tsʰ ɔ ŋ	c o ng
tsou	tsou	tsour	tsoou	tsow	c ou	tsʰou	tsʰ o u	c ou
tsu	tsu	tswu	tsuu	tsuh	c u	tsʰu	tsʰ u	c u
tsuan	tsuan	tswan	tsoan	tsuanr	c ua n	tsʰuan	tsʰ u a n	c ua n
tsui	tsuei	tswei	tsoei	tsuey	c uei	tsʰuei	tsʰ u e i	c uei
tsun	tsuen	tswen	tsoen	tsuenr	c ue n	tsʰuən	tsʰ u ə n	c ue n
tso	tsuo	tswu	tsuoo	tsuoh	c uo	tsʰuo	tsʰ u o	c uo
da	da	dar	daa	dah	d a	ta	t a	d a
dai	dai	dair	dae	day	d ai	tai	t a i	d ai
dan	dan	darn	daan	dann	d a n	tan	t a n	d a n

dang	dang	darnɡ	daang	dang	d a ɲɡ	taŋ	t a ɲ	d a ɲɡ
dau	dau	daur	dao	daw	d ao	tau	t a u	d ao
dö	de	der	dee	deh	d e	ɬɤ	t ɤ	d e
de	dei	deir	deei	dey	d ei	tei	t e i	d ei
	den	dern	deen	denn	d e n	tən	t ə n	d e n
dëŋɡ	deng	derng	deeng	denq	d e ɲɡ	təŋ	t ə ɲ	d e ɲɡ
di	di	dʏi	dii	dih	d i	ti	t i	d i
diän	dian	dyan	dean	diann	d ia n	tiən	t i ɛ n	d ia n
diäng	diang	dyang	deang	dianq	#N/A	tiaŋ	t i a ɲ	#N/A
diau	diau	dyau	deau	diaw	d iao	tiau	t i a u	d iao
diä	die	dye	diee	dieh	d ie	tie	t i e	d ie
ding	ding	dyng	diing	dinq	d i ɲɡ	tiŋ	t i ɲ	d i ɲɡ
diu	diou	dyou	deou	diow	d iou	tiou	t i o u	d iou
dung	dong	dorng	doong	donq	d o ɲɡ	tɔŋ	t ɔ ɲ	d o ɲɡ
dou	dou	dour	doou	dow	d ou	tou	t o u	d ou
du	du	dwu	duu	duh	d u	tu	t u	d u
duan	duan	dwan	doan	duanr	d ua n	tuan	t u a n	d ua n
dui	duei	dwei	doei	duey	d uei	tuei	t u e i	d uei
dun	duen	dwen	doen	duenr	d ue n	tuən	t u ə n	d ue n
do	duo	dwo	duoo	duoh	d uo	tuo	t u o	d uo
o	e	er	ee	eh	e	ɤ	ɤ	e
	è	èr	èe	èh	#N/A	ɛ	ɛ	#N/A
e	ei	eir	eei	ey	ei	ei	e i	ei
ën	en	ern	een	enn	e n	ən	ə n	e n
ëŋɡ	eng	erng	eeng	enq	e ɲɡ	əŋ	ə ɲ	e ɲɡ
örl	el	erl	eel	ell	e r	aɤ	a ɤ	e r
fa	fa	far	faa	fah	f a	fa	f a	f a
fan	fan	farn	faan	fann	f a n	fan	f a n	f a n
fang	fang	farng	faang	fanq	f a ɲɡ	faŋ	f a ɲ	f a ɲɡ
fe	fei	feir	feei	fey	f ei	fei	f e i	f ei

fën	fen	fern	feen	fenn	f e n	fən	f ə n	f e n
fëng	feng	ferng	feeng	fenq	f e ng	fəŋ	f ə ŋ	f e ng
fo	fo	for	foo	foh	f o	fuo	f u o	f o
fou	fou	four	foou	fow	f ou	fou	f o u	f ou
fu	fu	fwu	fuu	fuh	f u	fu	f u	f u
ga	ga	gar	gaa	gah	g a	ka	k a	g a
gai	gai	gair	gae	gay	g ai	kai	k a i	g ai
gan	gan	garn	gaan	gann	g a n	kan	k a n	g a n
gang	gang	garng	gaang	ganq	g a ng	kaŋ	k a ŋ	g a ng
gau	gau	gaur	gao	gaw	g ao	kau	k a u	g ao
gö	ge	ger	gee	geh	g e	kʁ	k ʁ	g e
ge	gei	geir	geei	gey	g ei	kei	k e i	g ei
gën	gen	gern	geen	genn	g e n	kən	k ə n	g e n
gëng	geng	gerng	geeng	genq	g e ng	kəŋ	k ə ŋ	g e ng
gung	gong	gorng	goong	gonq	g o ng	kuŋ	k o ŋ	g o ng
gou	gou	gour	goou	gow	g ou	kou	k o u	g ou
gu	gu	gwu	guu	guh	g u	ku	k u	g u
gua	gua	gwa	goa	guah	g ua	kua	k u a	g ua
guai	guai	gwai	goai	guay	g uai	kuai	k u a i	g uai
guan	guan	gwan	goan	guanr	g ua n	kuan	k u a n	g ua n
guang	guang	gwang	goang	guanc	g ua ng	kuaŋ	k u a ŋ	g ua ng
gui	guei	gwei	goei	guey	g uei	kuei	k u e i	g uei
gun	guen	gwen	goen	guenr	g ue n	kuən	k u ə n	g ue n
guo	guo	gwo	guoo	guoh	g uo	kuo	k u o	g uo
ha	ha	har	haa	hah	h a	xa	x a	h a
hai	hai	hair	hae	hay	h ai	xai	x a i	h ai
han	han	harn	haan	hann	h a n	xan	x a n	h a n
hang	hang	harng	haang	hangq	h a ng	xaŋ	x a ŋ	h a ng
hau	hau	haur	hao	haw	h ao	xau	x a u	h ao
ho	he	her	hee	heh	h e	xʁ	x ʁ	h e

he	hei	heir	heel	hey	h ei	xei	x e i	h ei
hēn	hen	hern	heen	henn	h e n	xən	x ə n	h e n
hēng	heng	herng	heeng	henq	h e ng	xəŋ	x ə ŋ	h e ng
hung	hong	horng	hoong	honq	h o ng	xuŋ	x u ŋ	h o ng
hou	hou	hour	hoou	how	h ou	xou	x o u	h ou
hu	hu	hwu	huu	huh	h u	xu	x u	h u
hua	hua	hwa	hoa	huah	h ua	xua	x u a	h ua
huai	huai	hwai	hoai	huay	h uai	xuai	x u a i	h uai
huan	huan	hwan	hoan	huanr	h ua n	xuan	x u a n	h ua n
huang	huang	hwang	hoang	huang	h ua ng	xuaŋ	x u a ŋ	h ua ng
hui	huei	hwei	hoei	huey	h uei	xuei	x u e i	h uei
hun	huen	hwen	hoen	huenr	h ue n	xuən	x u ə n	h ue n
huo	huo	hwo	huoo	huoh	h uo	xuo	x u o	h uo
dji	ji	jyi	jii	jih	j i	tɕi	tɕ i	j i
djia	jia	jya	jea	jiah	j ia	tɕia	tɕ i a	j ia
djiän	jian	jyan	jean	jiann	j ia n	tɕiɛn	tɕ i ɛ n	j ia n
djiang	jiang	jyang	jeang	jianq	j ia ng	tɕiaŋ	tɕ i a ŋ	j ia ng
djiau	jiau	jyau	jeau	jiaw	j iao	tɕiau	tɕ i a u	j iao
djiä	jie	jye	jiee	jieh	j ie	tɕie	tɕ i e	j ie
djin	jin	jyn	jiin	jinn	j i n	tɕin	tɕ i n	j i n
djing	jing	jyng	jiing	jinq	j i ng	tɕiŋ	tɕ i ŋ	j i ng
djiung	jiong	jyong	jeong	jionq	j io ng	tɕiouŋ	tɕ i u ŋ	j io ng
djiu	jiou	jyou	jeou	jiow	j iou	tɕiou	tɕ i o u	j iou
djü	jiu	jyu	jeu	jiuh	j v	tɕy	tɕ y	j v
djüan	jiuan	jyuan	jeuan	jiuanr	j va n	tɕyɛn	tɕ y ɛ n	j va n
djüä	jiue	jyue	jeue	jiueh	j ve	tɕye	tɕ y e	j ve
djün	jiun	jyun	jeun	jiunn	j v n	tɕyn	tɕ y n	j v n
ka	ka	kar	kaa	kah	k a	k ^h a	k ^h a	k a
kai	kai	kair	kae	kay	k ai	k ^h ai	k ^h a i	k ai
kan	kan	karn	kaan	kann	k a n	k ^h an	k ^h a n	k a n

kang	kang	karng	kaang	kanq	k a ng	k ^h aŋ	k ^h a ɲ	k a ng
kau	kau	kaur	kao	kaw	k a o	k ^h au	k ^h a u	k a o
kö	ke	ker	kee	keh	k e	k ^h ɣ	k ^h ɣ	k e
	kei	keir	keei	key	k e i	k ^h ei	k ^h e i	k e i
kën	ken	kern	keen	kenn	k e n	k ^h ən	k ^h ə n	k e n
këng	keng	kerng	keeng	kenq	k e ng	k ^h əŋ	k ^h ə ɲ	k e ng
kung	kong	korng	koong	konq	k o ng	k ^h uŋ	k ^h u ɲ	k o ng
kou	kou	kour	koou	kow	k o u	k ^h ou	k ^h o u	k o u
gu	ku	kwu	kuu	kuh	k u	k ^h u	k ^h u	k u
kua	kua	kwa	koa	kuah	k u a	k ^h ua	k ^h u a	k u a
kuai	kuai	kwai	koai	kuay	k u a i	k ^h uai	k ^h u a i	k u a i
kuan	kuan	kwan	koan	kuanr	k u a n	k ^h uan	k ^h u a n	k u a n
kuang	kuang	kwang	koang	kuanc	k u a ng	k ^h uaŋ	k ^h u a ɲ	k u a ng
kue	kuei	kwei	koei	kuey	k u e i	k ^h uei	k ^h u e i	k u e i
kun	kuen	kwen	koen	kuenr	k u e n	k ^h uən	k ^h u ə n	k u e n
kuo	kuo	kwo	kuoo	kuoh	k u o	k ^h uo	k ^h u o	k u o
la	lha	la	laa	lah	l a	la	l a	l a
lai	lhai	lai	lae	lay	l a i	lai	l a i	l a i
lan	lhan	lan	laan	lann	l a n	lan	l a n	l a n
lang	lhang	lang	laang	lanq	l a ng	laŋ	l a ɲ	l a ng
lau	lhau	lau	lao	law	l a o	lau	l a u	l a o
lö	lhe	le	lee	leh	l e	lɣ	l ɣ	l e
le	lhei	lei	leei	ley	l e i	lei	l e i	l e i
lëng	lheng	leng	leeng	lenq	l e ng	ləŋ	l ə ɲ	l e ng
li	lhi	li	lii	lih	l i	li	l i	l i
lia	lhia	lia	lea	liah	l i a	lia	l i a	l i a
liän	lhian	lian	lean	liann	l i a n	liən	l i ε n	l i a n
liang	lhiang	liang	leang	lianq	l i a ng	liaŋ	l i a ɲ	l i a ng
liau	lhiau	liau	leau	liaw	l i a o	liau	l i a u	l i a o
liä	lhie	lie	liee	lieh	l i e	lie	l i e	l i e

lin	lhin	lin	liin	linn	l i n	lin	l i n	l i n
ling	lhing	ling	liing	linq	l i ng	liŋ	l i ŋ	l i ng
liou	lhiou	liou	leou	liow	l i ou	liou	l i o u	l i ou
lo	lo	lor	loo	loh	l o	lɔ	l ɔ	l o
lung	lhong	long	loong	long	l o ng	luŋ	l ʊ ŋ	l o ng
lou	lhou	lou	loou	low	l ou	lou	l o u	l ou
lu	lhu	lu	luu	luh	l u	lu	l u	l u
lū	lhiu	liu	leu	liuh	#N/A	ly	l y	#N/A
luan	lhuan	luan	loan	luann	l ua n	luan	l u a n	l ua n
lüän	lhiuan?	liuan?	leuan?	luann	#N/A	lyɛn	l y ɛ n	#N/A
lää	lhiue	liue	leue	liueh	#N/A	lye	l y e	#N/A
lun	lhuen	luen	loen	luenn	l ue n	luən	l u ə n	l ue n
lün	lhiun	liun	leun	liunn	#N/A	lyn	l y n	#N/A
lo	lhuo	luo	luoo	luoh	l u o	luo	l u o	l u o
ma	mha	ma	maa	mah	m a	ma	m a	m a
mai	mhai	mai	mae	may	m ai	mai	m a i	m ai
man	mhan	man	maan	mann	m a n	man	m a n	m a n
mang	mhang	mang	maang	mand	m a ng	maŋ	m a ŋ	m a ng
mau	mhau	mau	mao	maw	m ao	mau	m a u	m ao
mö	mhe	me	mee	meh	m e	mɤ	m ɤ	m e
me	mhei	mei	meei	mey	m ei	mei	m e i	m ei
mën	mhen	men	meen	menn	m e n	mən	m ə n	m e n
mëng	mheng	meng	meeng	mend	m e ng	məŋ	m ə ŋ	m e ng
mi	mhi	mi	mii	mih	m i	mi	m i	m i
miän	mhian	mian	mean	mianr	m ia n	mien	m i ɛ n	m ia n
miau	mhiau	miau	meau	miaw	m iao	miau	m i a u	m iao
miä	mhie	mie	miee	mieh	m ie	mie	m i e	m ie
min	mhin	min	miin	minn	m i n	min	m i n	m i n
ming	mhing	ming	miing	minq	m i ng	miŋ	m i ŋ	m i ng
miu	mhiou	miou	meou	miow	m iou	miou	m i o u	m iou

mo	mho	mo	moo	moh	m o	muo	m u o	m o
mou	mhou	mou	moou	mow	m ou	mou	m o u	m ou
mu	mhu	mu	muu	muh	m u	mu	m u	m u
na	nha	na	naa	nah	n a	na	n a	n a
nai	nhai	nai	nae	nay	n ai	nai	n a i	n ai
nan	nhan	nan	naan	nann	n a n	nan	n a n	n a n
nang	nhang	nang	naang	nanq	n a ng	naŋ	n a ɲ	n a ng
nau	nhau	nau	nao	naw	n ao	nau	n a u	n ao
nö	nhe	ne	nee	neh	n e	nʏ	n ʏ	n e
ne	nhei	nei	neei	ney	n ei	nei	n e i	n ei
něn	nhen	nen	neen	nenn	n e n	nən	n ə n	n e n
něng	nheng	neng	neeng	nenq	n e ng	nəŋ	n ə ɲ	n e ng
ni	nhi	ni	nii	nih	n i	ni	n i	n i
nia	nia	niar	niaa	niah	#N/A	nia	n i a	#N/A
niän	nhian	nian	nean	niann	n ia n	niɛn	n i ɛ n	n ia n
niang	nhiang	niang	neang	niangq	n ia ng	niaŋ	n i a ɲ	n ia ng
niau	nhiau	niau	neau	niaw	n iao	niau	n i a u	n iao
niä	nhie	nie	niece	nieh	n ie	nie	n i e	n ie
nin	nhin	nin	niin	ninn	n i n	nin	n i n	n i n
ning	nhing	ning	niing	ningq	n i ng	niŋ	n i ɲ	n i ng
niu	nhiou	niou	neou	niow	n iou	niou	n i o u	n iou
nung	nhong	nong	noong	nonq	n o ng	nuŋ	n ʊ ɲ	n o ng
nou	nhou	nou	noou	now	n ou	nou	n o u	n ou
nu	nhu	nu	nuu	nuh	n u	nu	n u	n u
nü	nhiu	niu	neu	niuh	#N/A	ny	n y	#N/A
nuan	nhuan	nuan	noan	nuanr	n ua n	nuan	n u a n	n ua n
nüä	nhiue	niue	neue	niueh	#N/A	nye	n y e	#N/A
nun	nhuen	nuen	noen	nuenr	#N/A	nuən	n u ə n	#N/A
no	nhuo	nuo	nuoo	nuoh	n uo	nuo	n u o	n uo
o	o	or	oo	oh	o	ɔ?	ɔ ?	o

ou	ou	our	oou	ow	ou	ou	o u	ou
pa	pa	par	paa	pah	p a	p ^h a	p ^h a	p a
pai	pai	pair	pae	pay	p ai	p ^h ai	p ^h a i	p ai
pan	pan	parn	paan	pann	p a n	p ^h an	p ^h a n	p a n
pang	pang	parng	paang	panq	p a ng	p ^h aŋ	p ^h a ŋ	p a ng
pau	pau	paur	pao	paw	p ao	p ^h au	p ^h a u	p ao
pe	pei	peir	peei	pey	p ei	p ^h ei	p ^h e i	p ei
pën	pen	pern	peen	penn	p e n	p ^h ən	p ^h ə n	p e n
pëng	peng	perng	peeng	penq	p e ng	p ^h əŋ	p ^h ə ŋ	p e ng
pi	pi	pyi	pii	pih	p i	p ^h i	p ^h i	p i
piän	pian	pyan	pean	piann	p ia n	p ^h iɛn	p ^h i ɛ n	p ia n
piau	piau	pyau	peau	piaw	p iao	p ^h iau	p ^h i a u	p iao
piä	pie	pye	piee	pieh	p ie	p ^h ie	p ^h i e	p ie
pin	pin	pyn	piin	pinn	p i n	p ^h in	p ^h i n	p i n
ping	ping	pyng	piing	pinq	p i ng	p ^h iŋ	p ^h i ŋ	p i ng
po	po	por	poo	poh	p o	p ^h uo	p ^h u o	p o
pou	pou	pour	poou	pow	p ou	p ^h ou	p ^h o u	p ou
pu	pu	pwu	puu	puh	p u	p ^h u	p ^h u	p u
tji	chi	chyi	chii	chih	q i	tɕ ^h i	tɕ ^h i	q i
tjia	chia	chya	chea	chiah	q ia	tɕ ^h ia	tɕ ^h i a	q ia
tjiän	chian	chyan	chean	chianr	q ia n	tɕ ^h iɛn	tɕ ^h i ɛ n	q ia n
tjiang	chiang	chyang	cheang	chianq	q ia ng	tɕ ^h iaŋ	tɕ ^h i a ŋ	q ia ng
tjiau	chiau	chyau	cheau	chiaw	q iao	tɕ ^h iau	tɕ ^h i a u	q iao
tjiä	chie	chye	chiee	chieh	q ie	tɕ ^h ie	tɕ ^h i e	q ie
tjin	chin	chyn	chiin	chinn	q i n	tɕ ^h in	tɕ ^h i n	q i n
tjing	ching	chyng	chiing	chingq	q i ng	tɕ ^h iŋ	tɕ ^h i ŋ	q i ng
tjiung	chiong	chyong	cheong	chionq	q io ng	tɕ ^h ioŋ	tɕ ^h i ɔ ŋ	q io ng
tjiu	chiou	chyou	cheou	chiow	q iou	tɕ ^h iou	tɕ ^h i o u	q iou
tjü	chiu	chyu	cheu	chiuh	q v	tɕ ^h y	tɕ ^h y	q v
tjüan	chiuan	chyuan	cheuan	hiuan	q va n	tɕ ^h yɛn	tɕ ^h y ɛ n	q va n

tjüä	chiue	chyue	cheue	chiueh	q ve	tɕ ^h ye	tɕ ^h y e	q ve
tjün	chiun	chyun	cheun	chiunr	q v n	tɕ ^h yn	tɕ ^h y n	q v n
jan	rhan	ran	raan	rann	r a n	ɭan	ɭ a n	r a n
jang	rhang	rang	raang	ranq	r a ng	ɭaŋ	ɭ a ŋ	r a ng
jau	rhau	rau	rao	raw	r ao	ɭau	ɭ a u	r ao
jö	rhe	re	ree	reh	r e	ɭʁ	ɭ ʁ	r e
jën	rhen	ren	reen	renn	r e n	ɭən	ɭ ə n	r e n
jëng	rheng	reng	reeng	renq	r e ng	ɭəŋ	ɭ ə ŋ	r e ng
jì	rhy	ry	ryy	ryh	r ii	ɭi	ɭ i	r ii
jung	rhong	rong	roong	ronq	r o ng	ɭoŋ	ɭ o ŋ	r o ng
jou	rhou	rou	roou	row	r ou	ɭou	ɭ o u	r ou
ju	rhu	ru	ruu	ruh	r u	ɭu	ɭ u	r u
juan	rhuan	ruan	roan	ruann	r ua n	ɭuan	ɭ u a n	r ua n
jui	rhuei	ruei	roei	ruey	r uei	ɭuei	ɭ u e i	r uei
jun	rhuen	ruen	roen	ruenn	r ue n	ɭuən	ɭ u ə n	r ue n
jo	rho	ruo	ruoo	ruoh	r uo	ɭuo	ɭ u o	r uo
sa	sa	sar	saa	sah	s a	sa	s a	s a
sai	sai	sair	sae	say	s ai	sai	s a i	s ai
san	san	sarn	saan	sann	s a n	san	s a n	s a n
sang	sang	sarng	saang	sanq	s a ng	saŋ	s a ŋ	s a ng
sau	sau	saur	sao	saw	s ao	sau	s a u	s ao
sö	se	ser	see	seh	s e	sʁ	s ʁ	s e
	sei	seir	seei	sey	s ei	sei	s e i	s ei
sën	sen	sern	seen	senn	s e n	sən	s ə n	s e n
sëng	seng	serng	seeng	senq	s e ng	səŋ	s ə ŋ	s e ng
scha	sha	shar	shaa	shah	sh a	ʃa	ʃ a	sh a
schai	shai	shair	shae	shay	sh ai	ʃai	ʃ a i	sh ai
schan	shan	sharn	shaan	shanr	sh a n	ʃan	ʃ a n	sh a n
schang	shang	sharng	shaang	shanc	sh a ng	ʃaŋ	ʃ a ŋ	sh a ng
schau	shau	shaur	shao	shaw	sh ao	ʃau	ʃ a u	sh ao

schö	she	sher	shee	sheh	sh e	ṣʁ	ṣ ʁ	sh e
schei	shei	sheir	sheei	shey	sh ei	ṣei	ṣ e i	sh ei
schën	shen	shern	sheen	shenn	sh e n	ṣən	ṣ ə n	sh e n
schëng	sheng	sherng	sheeng	shenc	sh e ng	ṣəŋ	ṣ ə ŋ	sh e ng
schï	shy	shyr	shyy	shyh	sh ii	ṣi	ṣ i	sh ii
	shong	shorng	shoong	shonc	#N/A	ṣoŋ	ṣ ʊ ŋ	#N/A
schou	shou	shour	shoou	show	sh ou	ṣou	ṣ o u	sh ou
schu	shu	shwu	shuu	shuh	sh u	ṣu	ṣ u	sh u
schua	shua	shwa	shoa	shuah	sh ua	ṣua	ṣ u a	sh ua
schuai	shuai	shwai	shoai	shuay	sh uai	ṣuai	ṣ u a i	sh uai
schuan	shuan	shwan	shoan	shuan	sh ua n	ṣuan	ṣ u a n	sh ua n
schuang	shuang	shwang	shoang	shuang	sh ua ng	ṣuaŋ	ṣ u a ŋ	sh ua ng
schui	shuei	shwei	shoei	shuey	sh uei	ṣuei	ṣ u e i	sh uei
schun	shuen	shwen	shoen	shuen	sh ue n	ṣuən	ṣ u ə n	sh ue n
scho	shuo	shwo	shuoo	shuoh	sh uo	ṣuo	ṣ u o	sh uo
sï	sy	syr	syy	syh	s ii	si	s i	s ii
sung	song	sorng	soong	song	s o ng	soŋ	s ʊ ŋ	s o ng
sou	sou	sour	soou	sow	s ou	sou	s o u	s ou
su	su	swu	suu	suh	s u	su	s u	s u
suan	suan	swan	soan	suan	s ua n	suan	s u a n	s ua n
sui	suei	swei	soei	suey	s uei	suei	s u e i	s uei
sun	suen	swen	soen	suen	s ue n	suən	s u ə n	s ue n
so	suo	swo	suoo	suoh	s uo	suo	s u o	s uo
ta	ta	tar	taa	tah	t a	t ^h a	t ^h a	t a
tai	tai	tair	tae	tay	t ai	t ^h ai	t ^h a i	t ai
tan	tan	tarn	taan	tann	t a n	t ^h an	t ^h a n	t a n
tang	tang	tarng	taang	tanq	t a ng	t ^h aŋ	t ^h a ŋ	t a ng
tau	tau	taur	tao	taw	t ao	t ^h au	t ^h a u	t ao
tö	te	ter	tee	teh	t e	t ^h ʁ	t ^h ʁ	t e
te	tei	teir	teei	tey	t ei	t ^h ei	t ^h e i	t ei

těng	teng	terng	teeng	tenq	t e ng	t ^h əŋ	t ^h ə ŋ	t e ng
ti	ti	tyi	tii	tih	t i	t ^h i	t ^h i	t i
tiän	tian	tyan	tean	tiann	t ia n	t ^h iɛn	t ^h i ɛ n	t ia n
tiau	tiau	tyau	teau	tiaw	t iao	t ^h iau	t ^h i a u	t iao
tiä	tie	tye	tiee	tieh	t ie	t ^h ie	t ^h i e	t ie
ting	ting	tyng	tiing	tinq	t i ng	t ^h iŋ	t ^h i ŋ	t i ng
tung	tong	torng	toong	tonq	t o ng	t ^h uŋ	t ^h u ŋ	t o ng
tou	tou	tour	toou	tow	t ou	t ^h ou	t ^h o u	t ou
tu	tu	twu	tuu	tuh	t u	t ^h u	t ^h u	t u
tuan	tuan	twan	toan	tuann	t ua n	t ^h uan	t ^h u a n	t ua n
tui	tuei	twei	toei	tuey	t uei	t ^h uei	t ^h u e i	t uei
tun	tuen	twen	toen	tuenn	t ue n	t ^h uən	t ^h u ə n	t ue n
to	tuo	two	tuoo	tuoh	t uo	t ^h uo	t ^h u o	t uo
wa	ua	wa	waa	wah	ua	ua	u a	ua
wai	uai	wai	woai	way	uai	uai	u a i	uai
wan	uan	wan	woan	wann	ua n	uan	u a n	ua n
wang	uang	wang	woang	wanq	ua ng	uaŋ	u a ŋ	ua ng
we	uei	wei	woei	wey	uei	uei	u e i	uei
wěŋ	uen	wen	woen	wenn	ue n	uən	u ə n	ue n
wěŋg	ueng	weng	woeng	wenq	ue n	uəŋ	u ə ŋ	ue n
wo	uo	wo	woo	woh	uo	uo	u o	uo
wu	u	wu	wuu	wuh	u	u	u	u
hsi	shi	shyi	shii	shih	x i	çi	ç i	x i
hsia	shia	shya	shea	shiah	x ia	çia	ç i a	x ia
hsiän	shian	shyan	shean	shianr	x ia n	çiɛn	ç i ɛ n	x ia n
hsiang	shiang	shyang	sheang	shiang	x ia ng	çiəŋ	ç i a ŋ	x ia ng
hsiao	shiau	shyau	sheau	shiaw	x iao	çiau	ç i a u	x iao
hsiä	shie	shye	shiee	shieh	x ie	çie	ç i e	x ie
hsin	shin	shyn	shiin	shinn	x i n	çin	ç i n	x i n
hsing	shing	shyng	shiing	shinq	x i ng	çiŋ	ç i ŋ	x i ng

hsiung	shiong	shyong	sheong	shionc	x io ng	ɕiʊŋ	ɕ i ʊ ŋ	x io ng
hsiu	shiou	shyou	sheou	shiow	x iou	ɕiou	ɕ i o u	x iou
hsü	shiu	shyu	sheu	shiuh	x v	ɕy	ɕ y	x v
hsüan	shiuan	shyuan	sheuan	hiuan	x va n	ɕyɛn	ɕ y ɛ n	x va n
hsüä	shiue	shyue	sheue	shiueh	x ve	ɕye	ɕ y e	x ve
hsün	shiun	shyun	sheun	shiunr	x v n	ɕyn	ɕ y n	x v n
ya	ia	ya	yea	yah	ia	ia	i a	ia
yän	ian	yan	yea	yann	ia n	iɛn	i ɛ n	ia n
yang	iang	yang	yeang	yangq	ia ng	iaŋ	i a ŋ	ia ng
yau	iau	yau	yeau	yaw	iao	iau	i a u	iao
yä	ie	ye	yee	yeh	ie	ie	i e	ie
i	i	yi	yii	yih	i	i	i	i
yin	in	yn	yiin	yinn	i n	in	i n	i n
ying	ing	yng	yiing	yinq	i ng	iŋ	i ŋ	i ng
yung	iong	yong	yeong	yongq	io ng	ioŋ	i ʊ ŋ	io ng
yu	iou	you	yeou	yow	iou	iou	i o u	iou
yü	iu	yu	yeu	yuh	v	y	y	v
yüan	iuan	yuan	yeuan	yuanr	va n	yɛn	y ɛ n	va n
yüä	iue	yue	yeue	yueh	ve	ye	y e	ve
yün	iun	yun	yeun	yunn	v n	yn	y n	v n
dsa	tza	tzar	tzaa	tzah	z a	tʂa	tʂ a	z a
dsai	tzai	tzair	tzae	tzay	z ai	tʂai	tʂ a i	z ai
dsan	tzan	tzarn	tzaan	tzann	z a n	tʂan	tʂ a n	z a n
dsang	tzang	tzarnɡ	tzaang	tzangq	z a ng	tʂaŋ	tʂ a ŋ	z a ng
dsau	tzau	tzaur	tzao	tzaw	z ao	tʂau	tʂ a u	z ao
dsö	tze	tzer	tzee	tzeh	z e	tʂʌ	tʂ ʌ	z e
dse	tzei	tzeir	tzeei	tzey	z ei	tʂei	tʂ e i	z ei
dsən	tzen	tzern	tzeen	tzenn	z e n	tʂən	tʂ ə n	z e n
dsəng	tzeng	tzernɡ	tzeeng	tzengq	z e ng	tʂəŋ	tʂ ə ŋ	z e ng
dscha	ja	jar	jaa	jah	zh a	tʂa	tʂ a	zh a

dschai	jai	jair	jae	jay	zh ai	tʃai	tʃ a i	zh ai
dschan	jan	jarn	jaan	jann	zh a n	tʃan	tʃ a n	zh a n
dschang	jang	jarng	jaang	janq	zh a ng	tʃaŋ	tʃ a ŋ	zh a ng
dschau	jau	jaur	jao	jaw	zh ao	tʃau	tʃ a u	zh ao
dschö	je	jer	jee	jeh	zh e	tʃɤ	tʃ ɤ	zh e
dsche	jei	jeir	jeei	jey	zh ei	tʃei	tʃ e i	zh ei
dschën	jen	jern	jeen	jenn	zh e n	tʃən	tʃ ə n	zh e n
dschëng	jeng	jerng	jeeng	jenq	zh e ng	tʃəŋ	tʃ ə ŋ	zh e ng
dschï	jy	jyr	jyy	jyh	zh ii	tʃi	tʃ i	zh ii
dschung	jong	jorng	joong	jonq	zh o ng	tʃuŋ	tʃ ʊ ŋ	zh o ng
dschou	jou	jour	joou	jow	zh ou	tʃou	tʃ o u	zh ou
dschu	ju	jwu	juu	juh	zh u	tʃu	tʃ u	zh u
dschua	jua	jwa	joa	juah	zh ua	tʃua	tʃ u a	zh ua
dschuai	juai	jwai	joai	juay	zh uai	tʃuai	tʃ u a i	zh uai
dschuan	juan	jwan	joan	juann	zh ua n	tʃuan	tʃ u a n	zh ua n
dschuang	juang	jwang	joang	juangq	zh ua ng	tʃuaŋ	tʃ u a ŋ	zh ua ng
dschui	juei	jwei	joei	juey	zh uei	tʃuei	tʃ u e i	zh uei
dschun	juen	jwen	joen	juenn	zh ue n	tʃuən	tʃ u ə n	zh ue n
dscho	juo	jwo	juoo	juoh	zh uo	tʃuo	tʃ u o	zh uo
dsï	tzy	tzyr	tzyy	tzyh	z ii	tsi	ts i	z ii
dsung	tzong	tzorng	tzoong	tzongq	z o ng	tsuŋ	ts ʊ ŋ	z o ng
dsou	tzou	tzour	tzoou	tzow	z ou	tsou	ts o u	z ou
dsu	tzu	tzwu	tzuu	tzuh	z u	tsu	ts u	z u
dsuan	tzuan	tzwan	tzoan	zuanr	z ua n	tsuan	ts u a n	z ua n
dsue	tzuei	tzwei	tzoei	tzuey	z uei	tsuei	ts u e i	z uei
dsun	tzuen	tzwen	tzoen	zuenr	z ue n	tsuən	ts u ə n	z ue n

SV XSAMPA	SV SAMPA-to-IPA
a	a
a :i	a i
a :n	a n
A N	a ŋ
AU	au
p a	p a
p a :i	p a i
p a :n	p a n
p A N	p a ŋ
p AU	p au
p e :i	p e i
p @ :n	p ə n
p @ N	p ə n
p i	p i
p iE :n	p iɛ n
p iAU	p iau
p ie	p ie
p i :n	p i n
p i N	p i ŋ
p uo	p uo
p u	p u
tsh a	ts ^h a
tsh a :i	ts ^h a i
tsh a :n	ts ^h a n
tsh A N	ts ^h a ŋ
tsh AU	ts ^h au
tsh 7	ts ^h ɣ
tsh @ :n	ts ^h ə n
tsh @ N	ts ^h ə n

ts`h a	tɕ ^h a
ts`h a :i	tɕ ^h a i
ts`h a :n	tɕ ^h a n
ts`h A N	tɕ ^h a ŋ
ts`h AU	tɕ ^h au
ts`h 7	tɕ ^h ʔ
ts`h @ :n	tɕ ^h ə n
ts`h @ N	tɕ ^h ə n
ts`h i`	tɕ ^h ɿ
ts`h U N	tɕ ^h u ŋ
ts`h @U	tɕ ^h ou
ts`h u	tɕ ^h u
ts`h ua	tɕ ^h ua
ts`h ua :i	tɕ ^h ua i
ts`h ua :n	tɕ ^h ua n
ts`h uA N	tɕ ^h ua ŋ
ts`h ue :i	tɕ ^h ue i
ts`h u@ :n	tɕ ^h uə n
ts`h uo	tɕ ^h uo
tsh i\	ts ^h ɿ
tsh U N	ts ^h u ŋ
tsh @U	ts ^h ou
tsh u	ts ^h u
tsh ua :n	ts ^h ua n
tsh ue :i	ts ^h ue i
tsh u@ :n	ts ^h uə n
tsh uo	ts ^h uo
t a	t a
t a :i	t a i
t a :n	t a n

t A N	t a ŋ
t AU	t au
t 7	t ʀ
t e :li	t e i
t @ :n	t ə n
t @ N	t ə n
t i	t i
t iE :n	t iɛ n
t iA N	t ia ŋ
t iAU	t iau
t ie	t ie
t i N	t i ŋ
t i@U	t i ou
t U N	t ʊ ŋ
t @U	t ou
t u	t u
t ua :n	t ua n
t ue :li	t ue i
t u@ :n	t uə n
t uo	t uo
7	ʀ
#N/A	#N/A
e :li	e i
@ :n	ə n
@ N	ə ŋ
a r\`	a ʂ
f a	f a
f a :n	f a n
f A N	f a ŋ
f e :li	f e i

f @ :n	f ə n
f @ N	f ə n
f uo	f uo
f @U	f ou
f u	f u
k a	k a
k a :\i	k a i
k a :n	k a n
k A N	k a ŋ
k AU	k au
k 7	k ʀ
k e :\i	k e i
k @ :n	k ə n
k @ N	k ə n
k U N	k o ŋ
k @U	k ou
k u	k u
k ua	k ua
k ua :\i	k ua i
k ua :n	k ua n
k uA N	k ua ŋ
k ue :\i	k ue i
k u@ :n	k uə n
k uo	k uo
x a	x a
x a :\i	x a i
x a :n	x a n
x A N	x a ŋ
x AU	x au
x 7	x ʀ

x e :\i	x e i
x @ :n	x ə n
x @ N	x ə n
x U N	x u ŋ
x @U	x ou
x u	x u
x ua	x ua
x ua :\i	x ua i
x ua :n	x ua n
x uA N	x ua ŋ
x ue :\i	x ue i
x u@ :n	x uə n
x uo	x uo
ts\ i	tɕ i
ts\ ia	tɕ ia
ts\ iE :n	tɕ ie n
ts\ iA N	tɕ ia ŋ
ts\ iAU	tɕ iau
ts\ ie	tɕ ie
ts\ i :n	tɕ i n
ts\ i N	tɕ i ŋ
ts\ iU N	tɕ iu ŋ
ts\ i@U	tɕ i ou
ts\ y	tɕ y
ts\ y{ :n	tɕ ye n
ts\ yE	tɕ ye
ts\ yE :n	tɕ y n
kh a	k ^h a
kh a :\i	k ^h a i
kh a :n	k ^h a n

kh A N	k ^h a ŋ
kh AU	k ^h au
kh 7	k ^h ʎ
kh e :i	k ^h e i
kh @ :n	k ^h ə n
kh @ N	k ^h ə n
kh U N	k ^h u ŋ
kh @U	k ^h ou
kh u	k ^h u
kh ua	k ^h ua
kh ua :i	k ^h ua i
kh ua :n	k ^h ua n
kh uA N	k ^h ua ŋ
kh ue :i	k ^h ue i
kh u@ :n	k ^h uə n
kh uo	k ^h uo
l a	l a
l a :i	l a i
l a :n	l a n
l A N	l a ŋ
l AU	l au
l 7	l ʎ
l e :i	l e i
l @ N	l ə n
l i	l i
l ia	l ia
l iE :n	l iɛ n
l iA N	l ia ŋ
l iAU	l iau
l ie	l ie

l i :n	l i n
l i N	l i ŋ
l i@U	l i ou
l o	l o
l U N	l u ŋ
l @U	l ou
l u	l u
#N/A	#N/A
l ua :n	l ua n
#N/A	#N/A
#N/A	#N/A
l u@ :n	l uə n
#N/A	#N/A
l uo	l uo
m a	m a
m a :\i	m a i
m a :n	m a n
m A N	m a ŋ
m AU	m au
m 7	m ʀ
m e :\i	m e i
m @ :n	m ə n
m @ N	m ə n
m i	m i
m iE :n	m iɛ n
m iAU	m iau
m ie	m ie
m i :n	m i n
m i N	m i ŋ
m i@U	m i ou

m uo	m uo
m @U	m ou
m u	m u
n a	n a
n a :\i	n a i
n a :n	n a n
n A N	n a ŋ
n AU	n au
n 7	n ɣ
n e :\i	n e i
n @ :n	n ə n
n @ N	n ə n
n i	n i
n ia	n ia
n iE :n	n iɛ n
n iA N	n ia ŋ
n iAU	n iau
n ie	n ie
n i :n	n i n
n i N	n i ŋ
n i@U	n i ou
n U N	n ʊ ŋ
n @U	n ou
n u	n u
#N/A	#N/A
n ua :n	n ua n
#N/A	#N/A
n u@ :n	n uə n
n uo	n uo
o	o

@U	ou
ph a	p ^h a
ph a :i	p ^h a i
ph a :n	p ^h a n
ph A N	p ^h a ŋ
ph AU	p ^h au
ph e :i	p ^h e i
ph @ :n	p ^h ə n
ph @ N	p ^h ə n
ph i	p ^h i
ph iE :n	p ^h iɛ n
ph iAU	p ^h iau
ph ie	p ^h ie
ph i :n	p ^h i n
ph i N	p ^h i ŋ
ph uo	p ^h uo
ph @U	p ^h ou
ph u	p ^h u
ts\h i	tɕ ^h i
ts\h ia	tɕ ^h ia
ts\h iE :n	tɕ ^h iɛ n
ts\h iA N	tɕ ^h ia ŋ
ts\h iAU	tɕ ^h iau
ts\h ie	tɕ ^h ie
ts\h i :n	tɕ ^h i n
ts\h i N	tɕ ^h i ŋ
ts\h iU N	tɕ ^h iʊ ŋ
ts\h i@U	tɕ ^h i ou
ts\h y	tɕ ^h y
ts\h y{ :n	tɕ ^h yɛ n

ts\h yE	tɕ ^h ye
ts\h yE :n	tɕ ^h y n
z` a :n	ɹ a n
z` A N	ɹ a ŋ
z` AU	ɹ au
z` ʔ	ɹ ʔ
z` @ :n	ɹ ə n
z` @ N	ɹ ə n
z` i`	ɹ ɿ
z` U N	ɹ u ŋ
z` @U	ɹ ou
z` u	ɹ u
z` ua :n	ɹ ua n
z` ue :li	ɹ ue i
z` u@ :n	ɹ uə n
z` uo	ɹ uo
s a	s a
s a :li	s a i
s a :n	s a n
s A N	s a ŋ
s AU	s au
s ʔ	s ʔ
s e :li	s e i
s @ :n	s ə n
s @ N	s ə n
s` a	ʂ a
s` a :li	ʂ a i
s` a :n	ʂ a n
s` A N	ʂ a ŋ
s` AU	ʂ au

s` 7	ʂ ʕ
s` e :\i	ʂ e i
s` @ :n	ʂ ə n
s` @ N	ʂ ə n
s` i`	ʂ ɨ
s` U N	ʂ u ŋ
s` @U	ʂ ou
s` u	ʂ u
s` ua	ʂ ua
s` ua :\i	ʂ ua i
s` ua :n	ʂ ua n
s` uA N	ʂ ua ŋ
s` ue :\i	ʂ ue i
s` u@ :n	ʂ uə n
s` uo	ʂ uo
s i\	s ɨ
s U N	s u ŋ
s @U	s ou
s u	s u
s ua :n	s ua n
s ue :\i	s ue i
s u@ :n	s uə n
s uo	s uo
th a	t ^h a
th a :\i	t ^h a i
th a :n	t ^h a n
th A N	t ^h a ŋ
th AU	t ^h au
th 7	t ^h ʕ
th e :\i	t ^h e i

th @ N	t ^h ə n
th i	t ^h i
th iE :n	t ^h iɛ n
th iAU	t ^h iau
th ie	t ^h ie
th i N	t ^h i ŋ
th U N	t ^h ʊ ŋ
th @U	t ^h ou
th u	t ^h u
th ua :n	t ^h ua n
th ue :i	t ^h ue i
th u@ :n	t ^h uə n
th uo	t ^h uo
w ua	w ua
w ua :i	w ua i
w ua :n	w ua n
w uA N	w ua ŋ
w ue :i	w ue i
w u@ :n	w uə n
w u@ N	w uə ŋ
w uo	w uo
u	u
s\ i	ɕ i
s\ ia	ɕ ia
s\ iE :n	ɕ iɛ n
s\ iA N	ɕ ia ŋ
s\ iAU	ɕ iau
s\ ie	ɕ ie
s\ i :n	ɕ i n
s\ i N	ɕ i ŋ

s\ iU N	ɕ iʊ ŋ
s\ i@U	ɕ i ou
s\ y	ɕ y
s\ y{ :n	ɕ yɛ n
s\ yE	ɕ ye
s\ yE :n	ɕ y n
j ia	j ia
j iE :n	j iɛ n
j iA N	j ia ŋ
j iAU	j iau
j ie	j ie
i	i
j i :n	j i n
j i N	j i ŋ
j iU N	j iʊ ŋ
j i@U	j i ou
y	y
j y{ :n	j yɛ n
j yE	j ye
j yE :n	j y n
ts a	ts a
ts a :i	ts a i
ts a :n	ts a n
ts A N	ts a ŋ
ts AU	ts au
ts ʔ	ts ɤ
ts e :i	ts e i
ts @ :n	ts ə n
ts @ N	ts ə n
ts` a	tɕ a

ts` a :\i	tɕ a i
ts` a :n	tɕ a n
ts` A N	tɕ a ŋ
ts` AU	tɕ au
ts` 7	tɕ ɣ
ts` e :\i	tɕ e i
ts` @ :n	tɕ ə n
ts` @ N	tɕ ə n
ts` i`	tɕ ɿ
ts` U N	tɕ u ŋ
ts` @U	tɕ ou
ts` u	tɕ u
ts` ua	tɕ ua
ts` ua :\i	tɕ ua i
ts` ua :n	tɕ ua n
ts` uA N	tɕ ua ŋ
ts` ue :\i	tɕ ue i
ts` u@ :n	tɕ uə n
ts` uo	tɕ uo
ts i\	ts ɿ
ts U N	ts u ŋ
ts @U	ts ou
ts u	ts u
ts ua :n	ts ua n
ts ue :\i	ts ue i
ts u@ :n	ts uə n