



"Here, on the level sand, Between the sea and land, What shall I build or write Against the fall of night?"



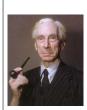
"Tell me of runes to grave That hold the bursting wave, Or bastions to design For longer date than mine."

Alfred Edward Housman, English poet (1859–1936) 1



"The uninitiated imagine that one must await inspiration in order to create. That is a mistake. I am far from saying that there is no such thing as inspiration; quite the opposite. It is found as a driving force in every kind of human activity, and is in no wise peculiar to artists. But that force is brought into action by an effort, and that effort is work. Just as appetite comes by eating so work brings inspiration, if inspiration is not discernible at the beginning."

Igor Fyodorovich Stravinsky (1882–1971), Russian-born composer ²



"As I think about acts of integrity and grace, I realise that there is nothing in my knowledge to compare with Frege's dedication to truth. His entire life's work was on the verge of completion, much of his work had been ignored to the benefit of men infinitely less capable, his second volume was about to be published, and upon finding that his fundamental assumption was in error, he responded with intellectual pleasure clearly submerging any feelings of personal disappointment. It was almost superhuman and a telling indication of that of which men are capable if their dedication is to creative work and knowledge instead of cruder efforts to dominate and be known."

Bertrand Russell (1872–1970), British mathematician, in a 1962 November 23 letter to Dr. van Heijenoort. ³



page viii	Daniel J. Greenhoe
1 quote:	Name of (1026). Mare Poores nor of 1/60 month Datuman Constraint and 1/50
¹ quote:	► Housman (1936): <i>More Poems</i> , page 64 ("Smooth Between Sea and Land"),
image:	► Hardy (1940): A Mathematician's Apology (section 7) http://en.wikipedia.org/wiki/Image:Housman.jpg
² quote:	Ewen (1961): <i>The New Book of Modern Composers</i> , page 408,
quote.	Ewen (1961). The New Book of Modern Composers, page 406, ■ Ewen (1950): The Book of Modern Composers
image:	http://en.wikipedia.org/wiki/Image:Igor_Stravinsky.jpg
³ quote:	► Heijenoort (1967): From Frege to Gödel: A Source Book, page 127
image:	http://www-history.mcs.st-andrews.ac.uk/PictDisplay/Russell.html





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CHAPTER 1_	
	PHONEMES OF MANDARIN CHINESE

1.1 Languages



As of 2009, there were a total of about 6909 "living languages" in the world. Given that the world currently has very sophisticated travel and communication systems, one might suppose that every spoken language in the world is known and has been documented by linguists. However, it is possible that there are still some living languages in the world unknown to the world community at large. In fact, in 2008, a new language called *Koro* was found in India.¹



One use for studying languages is to help discover the origins of remote social groups. For example, people on the islands in the Pacific ocean speak about 1200 different languages. Scientists at Ackland University have used computer analysis on 400 of these languages and say many of these people originally came from Taiwan thousands of years ago (see Figure 1.1 (page 2)).²

1.2 Consonants and Vowels

A **phoneme** is a basic sound in a language. Phonemes are combined together to form **phones**, or syllable sounds (CHAPTER 2 page 9). English has about 39 **phonemes**; Of these, 24 are **consonants** and 15 are **vowels**. Of the vowel sounds, there are about 11 monophthongs and about 4 dipthongs.

The phonemes of English are listed in Table 1.1 (page 4). There, the phonemes are transcribed using

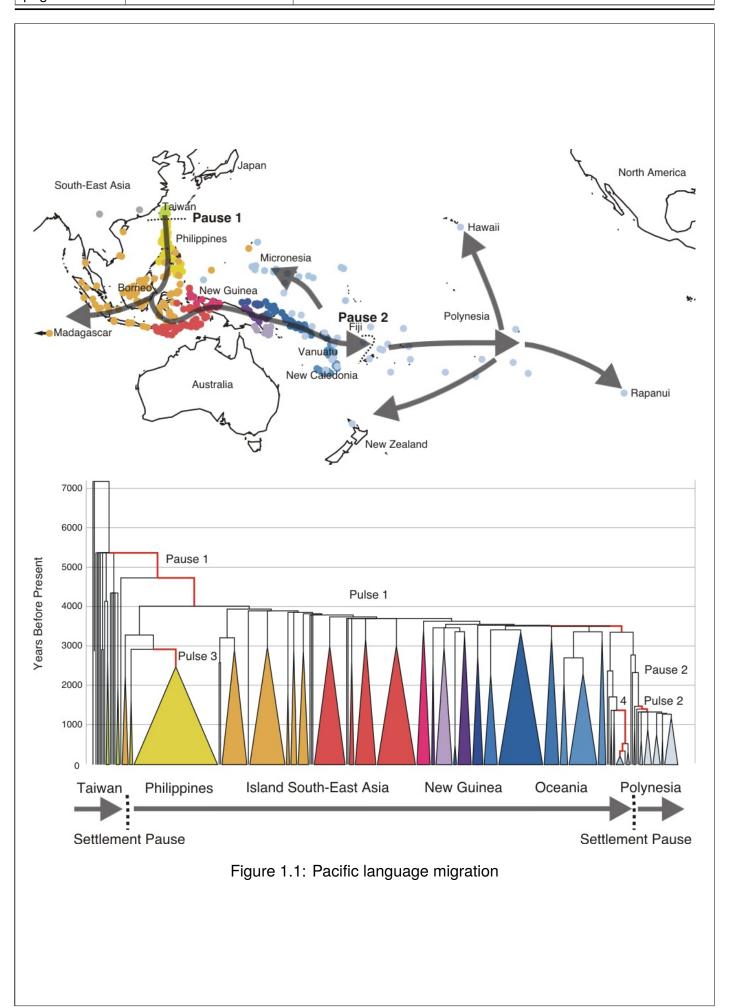
¹ Lewis (2009): Ethnologue: Languages of the World

[►] Wilford (2010): The New York Times

²http://language.psy.auckland.ac.nz/austronesian/research.php

³ Association (1999): Handbook of the International Phonetic Association... pages 41–43 (American English)

Prasad (2008): A Course in Linguistics page 35



1.3. PHONETIC SYSTEMS Daniel J. Greenhoe page 3

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IPA, KK, PinYin, and ZhuYin. For help pronouncing the IPA transcription, see
```

http://www.internationalphoneticalphabet.org/ipa-sounds/ipa-chart-with-sounds/ http://www.ipachart.com/

Chinese has about 29 **phonemes** (Table 1.2 page 5) Of these, about 23 are **consonants** and about 11 are **vowels**. Of the vowel phonemes, there are about 9 monophthongs (單元音) and about 2 dipthongs (雙元音).

Phonetic Systems 1.3

The challenge with all language scripts, is with what sound a grapheme (a "letter" or "character") represents. This is a particular problem with logograms, such as the set of Chinese characters. And this is not just a problem faced by non-Chinese persons trying to learn Chinese, but for native Chinese speaking children who are learning to read and write their own language. For this purpose there are several transcriptions that provide phonetic support for Chinese characters—that is, phonetic systems that let a reader know how he or she should pronounce a given character. Of these systems, the two most common standard systems are⁵

- (based on the Latin alphabet abc...) Section 1.3.1 page 6
- ② (based on other symbols 与女口口为去马, etc) Section 1.3.2 page 6

Of these two systems, PinYin tends to be more convenient for Westerners who tend in turn to be more familiar with the Latin alphabet.

These two transcriptions support the sounds of Mandarin Chinese, but not all the sounds of all the known languages in the world. In fact, they do not even support all the phonemes of English. A much more general transcription is the *International Phonetic Alphabet* (*IPA*). 6 Much of this transcription is similar to the Latin alphabet, but uses some non-Latin graphemes as well. IPA transcription can be used to represent the phonemes of Chinese, English, and every other known language that can be made audible by the human vocal system (tongue, teeth, lungs, nasal passages, etc.).

If concern is restricted to English only, then supporting transcriptions include 7

- (based on the Carnegie Mellon University Pronouncing Dictionary) 3 CMU
- BEEP ("British English prounciations")
- (based on Kenyon and Knott's A Pronouncing Dictionary of American English).

The transcription KK, it seems, is currently mostly limited in use to Taiwan. The CMU and BEEP transcriptions use only the basic Latin alphabet (A,B,C,...) and therefore are convenient for processing using computers.

- ⁴ Nenyon and Knott (1949): A Pronouncing Dictionary of American English
 - Kenyon and Knott (1953): A Pronouncing Dictionary of American English
- (1991)*ISO 7098:1991*
- ⁶ Association (1999): Handbook of the International Phonetic Association...
- Group: Carnegie Mellon University Pronouncing Dictionary
 - BEEP dictionary
 - Kenyon and Knott (1949): A Pronouncing Dictionary of American English
 - Kenyon and Knott (1953): A Pronouncing Dictionary of American English

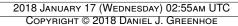








Table 1.1: Phonemes of English

La	itin	IPA	KK	CMU	PinYin	ZhuYin	example	voiced?
1.	р	р	р	Р	р	夂	as in p ear	
2.	b	b	b	В	b	5	as in b ear	
3.	t	t	t	Т	t		as in top	
4.	d	d	d	D	d	力	as in d oor	
5.	k	k	k	K	k	5	as in k ite	
6.	g	g	g	G	g	((as in g irl	
7.	ch	l ʧ	l ʧ	СН	q	(as in ch eese	
8.	j	ďЗ	ďЗ	JH	j	니	as in j ump	/
9.	m	m	m	М	m	П	as in mouse	
10.	n	n	n	N	n	3	as in n et	\ \frac{1}{2}
11.	ng	ŋ	ŋ	NG	ng	4	as in si ng	1
12.	f	f	f	F	f		as in f ish	
13.	v	V	v	V			as in v et	1
14.	th	θ	θ	тн			as in ma th	
15.	th	ð	ð	DH			as in th	1
16.	s	s	s	s	s	4	as in s ocks	
17.	z	z	z	z			as in z ero	1
18.	sh	ſ	 	SH	sh	T	as in sh oe	
19.	z	3	3	ZH			as in a z ure	1
20.	h	h	h	нн	h	厂	as in h at	
21.	r	ג	r	R			as in r ug	1
22.	у	j	j	Y	у	_	as in y ou	1
23.	w	w	w	w	w	X	as in w ait	✓ ✓
24.				L	l	为	as in late	1
25.	ee	iː	i	ΙΥ	i	_	as in h e	✓
26.	e	3	3	EH			as in r e d	✓
27.	a	æ	æ	AE			as in c a t	✓
28.	i	I	I	IН			as in l i d	/
29.	ir	a,	r	ER	er	儿	as in b ir d	✓
30.	00	υ	U	UH			as in g oo d	
31.	ue	u	u	uw	u	X	as in gl ue	/
32.	u	٨	٨	AH			as in b u d	
33.	a	а	a	AA	α	Y	as in f a ther	✓
34.	a	ə	Э	AO			as in a bove	
35.	е	е	е	EY	ei	7	as in b a y	✓
36.	i	aı	aı	AI	ay	罗	as in k i te	🗸
37.	oa	0	0	ow	ou	ヌ	as in g oa t	
38.	ow	aʊ	aʊ	AW	ao	幺	as in n ow	🗸
39.	oy	OI	OI.	OY			as in b oy	

Pin Yin Zhu Yin PA PA+TW CMU CMU CMU		Table 1.2: Phonemes of Mandarin Chinese										
2.	Pin	Yin	ZhuYin	IPA	IPA-TW	CMU	description					
as the d in day as the fin fade, fin, and fun be as the fin fade, fin, and fun chapsed as the hard g sound in gather, get, give, and gun the hard g sound in gather, get, give, and gun the hard g sound in ha ha or happy the hard g sound in ha ha or happy the j sound in ha ha or happy the j sound in happy the j sound in happy the j sound in jay or the g sound in gym the k sound in happy the j sound in jay or the g sound in gym the k sound in happy the j sound in jay or the g sound in gym the k sound in happy the j sound in jay or the g sound in gym the k sound in happy the j sound in jay or the g sound in gym the k sound in happy the j sound in jay or the g sound in gym the j sound in happy the j sound in jay or the g sound in gym the j sound in happy the j sound in jay or the g sound in gym the j sound in happy the j sound in gym the j sound in happy the j sound in gym the j sound in mayor, meet, mow, and mute the n sound in name, new, nine, and no the ng sound in ring the ps sound in ring the ps sound in sand, send, since, and sun the t sound in sand, send, since, and sun the t sound in talk, tent, tick, and tent the t sound in walk, went, and win a semi-shrill form of sh the y sound in walk, went, and win a semi-shrill form of sh the y sound in zebra 21. ch	1.	b		b	b	В	as the b in b oy					
4. f C f g g g g G the hard g sound in gather, get, give, and gun the hard g sound in gather, get, give, and gun the hard g sound in gather, get, give, and gun the hard g sound in hard a or happy 7. j 니 d3 d3 JH the j sound in jay or the g sound in gym 8. k 万 k k K K the k sound in kangaroo or the c sound in cap 9. I 为 I I L the I sound in label, lime, and low 10. m □ m m m M the m sound in mayor, meet, mow, and mute 11. n 万 n n N the n sound in name, new, nine, and no 12. ng n n N N the n sound in past, pen, pine, and prune 14. q 〈 ʧ ʧ CH the ch sound in past, pen, pine, and prune 15. s A s s s s the s sound in sand, send, since, and sun 16. t 左 t t T the t sound in talk, tent, tick, and tent 17. w X w w w the w sound in walk, went, and win 18. x □ c ∫ a semi-shrill form of sh 19. y ₺ j j y the y sound in yellow 20. z P d3 d3 z the z sound in zebra 21. ch 4 t t C C retroflex sounds (no English equivalent) 22. sh P s J SH retroflex sounds (no English equivalent) 23. zh	2.	С		ts	ts	TS	as the ts in ca ts and ha ts					
s. g 《 g g g h the hard g sound in gather, get, give, and gun the h sound in ha ha or happy 7. j 以 d d d d JH the j sound in jay or the g sound in gym 8. k う k k K k k k k the k sound in label, lime, and low 10. m □ m m m M the m sound in mayor, meet, mow, and mute 11. n う n n N the n sound in name, new, nine, and no 12. ng n n n N the p sound in past, pen, pine, and prune 14. q 〈 サ サ サ t t t t T the t sound in sand, send, since, and sun 16. t t t t t T the t sound in talk, tent, tick, and tent 17. w X w w w the w sound in walk, went, and win 18. x T	3.	d	力	d	d	D	as the d in d ay					
6. h	4.	f		f	f	F	as the f in fade, fin, and fun					
7. j 以	5.	g		g	g	G	the hard g sound in g ather, g et, g ive, and g un					
8.	6.	h	厂	x	1	нн	the h sound in h a h a or h appy					
9.	7.	j	니	ർ	ďЗ	JH	the j sound in j ay or the g sound in g ym					
10. m	8.	k		k	k	K	the \mathbf{k} sound in \mathbf{k} angaroo or the \mathbf{c} sound in \mathbf{c} ap					
11.	9.		为			L	the I sound in label, lime, and low					
11.	10.	m		m	m	М	the m sound in m ayor, m eet, m ow, and m ute					
13. p 女 p p p p the p sound in past, pen, pine, and prune the ch sound in chew the ch sound in sand, send, since, and sun the t sound in talk, tent, tick, and tent the w sound in walk, went, and win a semi-shrill form of sh the y sound in yellow zover p d3 d3 z the y sound in yellow zover p d3 d3 z the y sound in yellow zover zove	11.	n	3	n	n	N						
15.	12.	ng		l ŋ	ŋ	NG	the ng sound in ri ng					
15.	13.	р	夂	р	р	Р	the p sound in p ast, p en, p ine, and prune					
15.	14.	q	<			СН	the ch sound in ch ew					
17. w X w w w the w sound in walk, went, and win a semi-shrill form of sh 19. y 世 j j y the y sound in yellow 20. z P d3 d3 z the z sound in zebra 21. ch 子 ţ ţ the z sound in zebra 22. sh 戸 ţ ţ the z sounds (no English equivalent) 23. zh 世 z z d3 JH retroflex sounds (no English equivalent) 24. r □ ↓ J R retroflex sounds (no English equivalent) 25. a Y a a AA as the a in father 26. e せ e e e e EH the uh sound as the ai in said 27. er JL e e e e ER the ir sound as the ai in said 28. i - i i i i the ee sound as the ee in see 29. o せ o o UH the short oh sound as the o in nope 30. u X u u Uw as the o sound in do 31. ü U y y the ew sound, with lips rounded, similar to the ew sound in ewe (female sheep). 32. ai 万 ai ai AY as the i in kite 33. ao 4 ao ao Aw the ow sound as in cow and now. 34. ei ¬ ei ei Ey as the ay in say	15.	s		s		s	the s sound in s and, s end, s ince, and s un					
18. X	16.	t	士	t	t	Т	the t sound in talk, tent, tick, and tent					
19.	17.	w		w	w	w	the w sound in w alk, w ent, and w in					
Zo. Z P dʒ dʒ Z the z sound in zebra	18.	x		ຊ	ſ		a semi-shrill form of sh					
21. ch	19.	у	ŧ	j	j	Y	the y sound in y ellow					
Sh	20.	z	中	ďЗ	ďЗ	z	the z sound in z ebra					
Sh	21.	ch	1	ţş	ţſ	СН	retroflex sounds (no English equivalent)					
23. zh 単 z dʒ JH retroflex sounds (no English equivalent) 24. r □ J R retroflex sounds (no English equivalent) 25. a Y a a AA as the a in fa ther 26. e さ ə ə EH the <i>uh</i> sound as the ai in s ai d 27. er 月 ə ə ER the <i>ir</i> sound as in b ir d 28. i - i i i i i the <i>ee</i> sound as the ee in s ee 29. o さ o o UH the short <i>oh</i> sound as the o in no pe 30. u X u u UW as the o sound in d o 31. ü □ y y the ew sound, with lips rounded, similar to the ew sound in ewe (female sheep). 32. ai 牙 ai ai Ay as the i in ki te 33. ao 幺 aʊ aʊ AW the ow sound as in c ow and n ow . 34. ei ¬ ei ei Ey as the ay in s ay	22.	sh	尸			SH	retroflex sounds (no English equivalent)					
24.	23.	zh	业		ď3	JH						
25. a Y a a a AA as the a in father 26. e さ っ っ EH the uh sound as the ai in said 27. er 儿 ff ff Fsound as in bird 28. i ー i: i IY the ee sound as the ee in see 29. o で o UH the short oh sound as the o in nope 30. u X u u U UW as the o sound in do 31. ü 以 y y the ew sound, with lips rounded, similar to the ew sound in ewe (female sheep). 32. ai ガ aɪ aɪ AY as the i in kite 33. ao 女 aʊ AW the ow sound as in cow and now. 34. ei	24.	r		l	l l	R	retroflex sounds (no English equivalent)					
27. er 月 ず ず i: i iy the ee sound as in bird the ee sound as the ee in see 1y the short oh sound as the o in nope 30. u X u u u u u u u u	25.	а	Y		а	AA						
28. i	26.	е	ਟ	ə	ə	EH	the <i>uh</i> sound as the ai in s ai d					
29. O	27.	er	儿	ar l	₽v	ER	the <i>ir</i> sound as in b ir d					
30. u X u y y as the o sound in do the ew sound, with lips rounded, similar to the ew sound in ewe (female sheep). 32. ai	28.	i	_	i:	i	ΙΥ	the ee sound as the ee in see					
31. Ü 山 y y the ew sound, with lips rounded, similar to the ew sound in ewe (female sheep). 32. ai 労 aɪ aɪ ay as the i in kite 33. ao 女 aʊ aw the ow sound as in cow and now. 34. ei ऎ eɪ eɪ eɪ ey as the ay in say	29.	0	ट	0	o	UH	the short <i>oh</i> sound as the o in n o pe					
similar to the ew sound in ewe (female sheep). 32. ai	1		X				·					
similar to the ew sound in ewe (female sheep). 32. ai	31.	ü	│	у	у		the ew sound, with lips rounded,					
33. ao					_		similar to the ew sound in ewe (female sheep).					
34. ei	32.	ai	历	aı	aı	AY	as the i in kite					
34. ei	33.	ao	幺	aσ	aʊ	AW	the ow sound as in c ow and n ow .					
35. o 又 oʊ oʊ the long oh sound as the o in mow	34.	ei		еі		EY	as the ay in s a y					
	35.	0	ヌ	೦೮	೦೮	ow	the long <i>oh</i> sound as the o in m o w					





PinYin 1.3.1

The phonemes of PinYin are listed under "PinYin" in Table 1.2 (page 5). Chinese/English dictionaries and phrase books for English speaking people most often use Hanyu PinYin to specify the phonetic pronunciation of Chinese characters.

hàn 漢 汉	漢 語 汉 语		yīn 音 音
Han dynasty	language	piece together	sound
Chine	Chinese		

Hanyu PinYin has been adopted by mainland China as the standard phonetic system for Mandarin Chinese. It has been standardized by the International Organization for Standardization as specified in the 1991 standard *ISO 7098:1991*.8

ZhuYin 1.3.2

An alternative phonetic system to pinyin is 注音符號 (zhù yīn fú hào), or here referred to simply as *ZhuYin*. The phonemes of ZhuYin are described in Table 1.2 (page 5). Alternative names for ZhuYin include the following:



BoPoMoFo

- based on the first four characters of ZhuYin (与女口口)
- Mandarin Phonetic Symbols I
- (國營語"注意音与符系號公第三一式》)

MPS I

- (注素音≒一一式产) an abbreviation of ②
- Mandarin Phonetic Symbols
- (國拳語"注拳音"符奏號變) another abbreviation of ②

If you are interested in learning traditional Chinese characters, then you may find learning ZhuYin very much worth your time. There is a huge number of children's books available written using traditional Chinese characters with ZhuYin beside each character. So even if you do not know many Chinese characters, you will still be able to pronounce accurately each character, will be able to look up the meaning of each character in a dictionary, and can have access to a wealth of language learning material. Many such children's books also come with an audio CD, allowing you to also improve your listening comprehension.

Here is a table showing the relationship between ZhuYin and PinYin. Once you know these relationships, you can easily convert the ZhuYin you see in a book to pinyin that is often used in Chinese/English dictionaries.

5	b	3	n	<	q	丁	Z	t	ye	5	en	Ш	ü
夂	р	力	1	T	xi	5	С	罗	ai		ang		
П	m	((g	业	zhi	4	S	7	ei	L	eng		
⊏	f	5	k	1	chi	Y	а	幺	ao	儿	er		
力	d	厂	h	戸	shi	ट	0	ヌ	ou	—	yi		
太	t	니	j		re	さ	е	一号	an	X	u		

Similar to English speaking children's custom of singing the "ABC" song to learn the English alphabet, Chinese speaking children learning ZhuYin often chant the ZhuYin alphabet starting in the upper left corner, going down, and proceeding column by column like this:

8 🖲 (1991)*ISO 7098:1991*







1.4. CAVEATS Daniel J. Greenhoe page 7

```
(start)
             be
                                                fe
                                                         de
                         ре
                                    me
                                                                    te
                                                                         1
             ne
                          le
                                    ge
                                               ke
                                                         he
                                                                     ji
                                                                         4
                          χi
                                    zhi
                                               chi
                                                         shi
              qi
                                                                    re
                                                                         ^
              zi
                          ci
                                     si
                                                а
                                                           0
                                                                     е
                                     ei
              yi
                          ai
                                               ao
                                                         ou
                                                                    an
             en
                                                er
                                                          yi
                       ang
                                   eng
                                                                     u
               ü
```

Here is an example of a very old and very famous Chinese poem (and more recently, a very famous song as well, Section C.2 page 50) using traditional Chinese characters with ZhuYin phonetic symbols:

```
把於酒氣間於青氣天氣。
明5月#幾5時7有減,
不多知此天意上家宮紫闕區,一合是夕下是於何至年家。
              又求恐遠瓊益樓並玉山宇山,高紫處並不家勝亞寒區。
我ǎ欲宀乘芤風ュ歸ឡ去≦,
起トン舞メ゙弄トシ漬トシトトド。 何ムイ似メ゙在ポ人タヒ間ザ。
轉紫朱紫閣》, 低為綺孚戶家,
                昭紫無×眠!。
不夠應沒有就恨妳, 何憂事於長剝向髮別變時於圓齒。
人界有求悲微露離空合長,月時有求陰云晴之圓吳缺氣,此乎事於古炎難於全氣。
但夠願疑人學長剝久裝,一千萬里學共變嬋剝娟裝。
```

1.4 Caveats

Note that both PinYin and ZhuYin does have some curiosities and accompanying caveats:

1. One might suppose that the ZhuYin "∠" and PinYin "eng" are always pronounced as the IPA "אח" (English "ung" as in "rung") sound. Indeed, it does have this sound in almost every instance when it immediately follows a consonant as in the following examples:

```
ちL
            三層
                                  (3 floors)
      as in
                     sān céng
1L
            成人
                                  (an adult)
      as in
                     chéng rén
'nL
      as in 等一下
                     děng yi xià
                                  (wait a moment)
\langle \langle L \rangle
            更多
                     gèng dūo
      as in
                                  (even more)
      as in 横的
\Gamma
                     héng de
                                  (horizontal)
万L
      as in 坑道
                     kēng dào
                                  (a tunnel)
カ L
                                  (freezing)
      as in
            冷凍
                     lěng dòng
幺L
           碰見.
                                  (to meet unexpectedly)
      as in
                     pèng jiàn
业上
      as in
            正方
                     zhèng fāng
                                  (a square)
```



However, curiously, when it immediately follows the ZhuYin □ or PinYin "f", ∠ takes on the IPA "uŋ" (ZhuYin Х ∠) sound as in 風∑箏₺ (see illustration to the left). The character pair 風氣拳 is especially curious because in the first character \square the \bot is pronounced with the IPA un (similar to the English "ong" as in "song"); but in the second character 筝 \sharp , the \angle is pronounced with the IPA An (English "eng").

2. One might suppose that the ZhuYin "X" and PinYin "o" are always pronounced as the IPA "o" (English "o" as in "go") sound. Indeed, it does have this sound in almost every instance when it immediately follows a consonant as in the following examples:

イヌ as in 小型升乘 xiǎo chǒu (a clown)

カヌ 綠杏豆灸 lù dòu as in (green bean)

xiǎo gǒu (a puppy) $\langle \langle \rangle \rangle$ as in 小素狗鬃





However, curiously, when it immediately follows the ZhuYin 女 or PinYin "p", 女 takes on the IPA "uo" (ZhuYin $\times \overline{c}$) sound as in 外资婆》or 巫×婆》。



Some vocabulary 1.5

	ENGLISH	(grammar)	кк	中文		ENGLISH	(grammar)	KK	中文
1.	language	(n)	ˈlæŋgwɪʤz	語言	9.	tone	(n)	ton	聲
2.	phone	(n)	fon	聲音	10.	tonal	(adj)	'tonl	有聲的
3.	sound	(n)	saʊnd	聲音	11.	nontonal	(adj)	'nan _, tonl	無聲的
4.	consonant	(n)	'kansənənt	子音	12.	alphabet	(n)	'ælfə bɛt	字母
5.	vowel	(n)	'vaʊəl	母音	13.	script	(n)	skript	字母
6.	voiced	(adj)	voist	濁音的	14.	grapheme	(n)	'græfim	字位
7.	voiceless	(adj)	'vɔɪslɪs	清音的	15.	character	(n)	ˈkærɪktəʰ	字位
8.	syllable	(n)	'sɪləbl	音節	16.	glyph	(n)	glɪf	字形

	ENGLISH	(GRAMMAR)	КК	中文
17.	phonetics	(n)	fo'nɛtɪcs	語音系
18.	phoneme	(n)	'fonim	音素/音位
19.	ideograph	(n)	ı'dıə græf	形意文字
20.	pictograph	(n)	'pɪktəˌgræf	象形文字

CHAPTER 2	
	PHONES OF MANDARIN CHINESE

2.1 How many phones do you have?

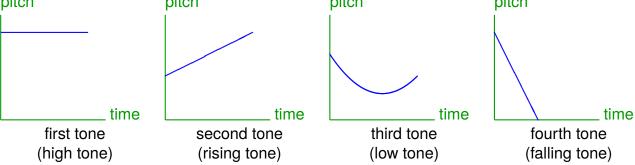
Chinese has about 401 phones (syllable sounds). English has about 15,831 phones. This result for English is from Chris Barker at New York University's Department of Linguistics. He used the *BEEP Pronouncing Dictionary* which apparently at the time contained "just over" 16,000 words, but now contains over 250,000 words. It can be freely downloaded from http://svr-www.eng.cam.ac.uk/comp.speech/Section1/Lexical/beep.html Chris Barker wrote a computer program to find all the syllables in the dictionary.

2.2 Spoken Chinese

Spoken Mandarin Chinese has about 401 syllable sounds (phones). In addition to these sounds, there are four tones plus a neutral tone; in general, meanings of sounds change (greatly) based on the tone that the sounds are voiced with. The four tones are referred to as follows:

pitch

pitch



As previously mentioned, using the correct tone is important, as the meaning of a character can change drastically with a change of tone, as illustrated by Example 2.1 (next) and Example 2.2 (page 10).

Example 2.1.

	10.00				
	tone	marking		examples	
1	first tone	-	mā	bā	gē
	(high tone)		媽	八	歌
			妈	八	歌
		,	mother	eight	song
2	second tone	,	má	bá	gé
	(rising tone)		麻	拔	格
			麻	拔	格
			numbness	to uproot	checks
3	third tone		mă	bă	gě
	(low tone)		馬	把	舸
	,		马	把	舸
			horse	handle	barge
4	fourth tone	`	mà	bà	gè
	(falling tone)		罵	谷	各
	, ,		骂	爸 爸	gè 各 各
			to scold	dad	each
⑤	no tone		ma	ba	ge
	(neutral tone)		麼	吧	個
			么	吧	个
			(for questions)	(for suggestions)	(quantifier)

Example 2.2.



Daniel J. Greenhoe

I love my mother (mǔ qīn).

jīn tiān yŏu bĭ sài 今 天 她 有 天 妣 比 有 today sky she has compared race today competition

Today she has a competition (bǐ sài).

dào xĭao ge tōu 到 我 看 個 小 偷 看 到 小 偷 see arrive one one small steal see thief

I see a thief (xĭao tōu).



I love my xylophone (mù qín).

tiān tā yŏu sāi jīn 今 天 妣 寒 有 寒 今 天 妣 鼻 有 today sky she has nose plug today stuffy nose

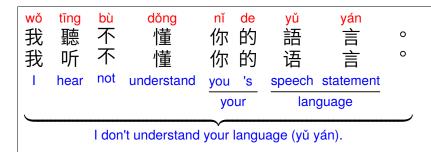
Today she has a stuffy nose (bí sāi).

wŏ kàn dào ae xĭao 看 到 個 小 頭 找 到 头 看 小 head see arrive one one small small head see

I see a small head (xĭao tóu).



2.2. SPOKEN CHINESE page 11 Daniel J. Greenhoe



dŏng de wŏ tīng bù nĭ yù yán 不 言 我 聽 懂 你的 預 不 我 听 懂 你的 预 hear advance statement understand you 's prediction your

I don't understand your prediction (yù yán).

Following is a fairly complete list of the phones (syllable sounds) of Mandarin Chinese. The columns "1, 2, 3, 4, n" represent first tone, second tone, third tone, forth tone, and neutral, respectively. A check (✓) in a column signifies that a character with the given sound ("phone") and tone exists in Mandarin Chinese. "IPA-n" represents International Phoenetic Alphabet narrow transcription. "IPA-b" represents International Phoenetic Alphabet broad transcription. For an audio pronounciation guides of IPA glyphs, see

http://www.internationalphoneticalphabet.org/ipa-sounds/ipa-chart-with-sounds/ http://www.ipachart.com/

	PinYin	ZhuYin	IPA	1 2	3 4 n		PinYin	ZhuYin	IPA	1 2 3 4 n
1.	а	Υ	а	√	1	2.	ai	万 万	aı	////
3.	an	끅	an	11	✓	4.	ang	尢	aŋ	
5.	ao	幺	ao	11	✓ ✓	6.	ba	5 Y	ba	
7.	bai	乞 历	baı	11	✓ ✓	8.	ban	乞 弓	ban	
9.	bang	分	baŋ	✓	/ /	10.	bao		bao	
11.	bei	5 て	be	✓	11	12.	ben	5	bən	V V V
13.	beng	ケ	bʌŋ	11	11	14.	bi	5 —	bi	
15.	bian	5-马	biεn	✓	11	16.	biao	与一幺	biao	/ /
17.	bie	5-せ	biε	11	/ /	18.	bin	5-5	bin	 / /
19.	bing	ケー	biŋ	✓	✓ ✓	20.	bo	5 군	bo	
21.	bu	5 X	bu		✓ ✓	22.	ca	5	tsa	√
23.	cai	ち	tsaı	11	✓ ✓	24.	can		tsan	
25.	cang	ち	tsaŋ	11		26.	cao	ち幺	tsao	
27.	ce	ちさ	tse		✓	28.	cen	+ 4	tsən	 / /
29.	ceng	ちし	tsng	✓		30.	cha	4 Y	ţşa	
31.	chai	彳历	tsaı	11		32.	chan	彳弓	tṣan	
33.	chang	彳尢	tsaŋ	11	✓ ✓	34.	chao	1 4 幺	tsao	
35.	che	1 さ	tsø	✓	✓ ✓	36.	chen	145	tʂən	
37.	cheng	1 L	tsvu	11	/ /	38.	chi	4	kgj	
39.	chong	イメム	†ຣູບາງ	11	/ /	40.	chou	彳又	tsou	
41.	chu	 イX	tsu	11	✓ ✓	42.	chua	<i>4</i> X Y	tsua	✓
43.	chuai	彳乂历	tsuaı		✓ ✓	44.	chuan	 イメ 召	tsuan	

¹ ■ 葉德明 (2000): Far East Pinyin Chinese-English Dictionary: 遠東拼音漢英辭典

Shibles (1994): Sino-Platonic Papers







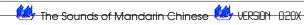
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CHAPTER 2. PHONES OF MANDARIN CHINESE

		<i> </i>	1		<u>, </u>	I	ا برمام	<i> </i>	l 4=t		1
45		イメ	tsuaŋ		'	46.	chui		tsui	1 1	
47	1		tsun	I I I	,	48.	chuo	イメ て ナソノ	cuat	/ /	
49		ち ちヌ	ts	////		50.	cong	ち メL ち メ	tsuŋ	1 1	
51		5 X 5 X	tso	•	- 1	52.	cu	ゥ∧ ち X 乁	tsu	/ / /	
53	!	5	tsuan	· · · ·		54.	cui	I	tsue	1 1 1	
55	cun	ラスコ カ丫	tsun	 	.	56.	cuo	ちメと 万	tsuo	/ / /	
57	1 .	カ	da dan			58.	dai	カカ カ	daı		
59	١.	カラ カ幺	dao		.	60.	dang de	カル カさ	daη dε		,
61	1	カム カ し	dao			62.	deng	カし カ <i>L</i>	dε dλη		
63	1	カ 、 カ ー	di	111	,	64. 66.	deng	カ	diεn	1 1 1	
67	l	/ / カー幺	diao	✓	.	68.	die	カーサ	diε	/ /	
69	l	カーム	dia0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- 1	70.	diu	カーヌ	diu	√	
71	1.	カメム	duŋ	/ / /	- 1	70.	dou	カ ス カヌ	do	1 11	
73	1.	カメ	du	111	- 1	74.	duan	カメヨ	duan	/ //	
75	1	カメ乁	due	✓ ×	.	76.	dun	为X与	dun	1 11	
77	l .	カメご	duo	111	.	78.	e	र र	8	1111	
79	en	5	ən	✓		80.	er	J L	ا ۸٫۱	1 11	
81	۱.	ĽΥ	fa	111	/	82.	fan	□ 弓	fan	1111	
83	١.	□	fan	111	- 1	84.	fei	Γĺ	fe	1111	
85	1.	□ 5	fən	111	/	86.	feng		fuŋ	1111	
87	fo	ㄷㄛ	fo	✓		88.	fou	⊏ヌ	fou	11	
89	fu	ĽХ	fu	111	/	90.	ga	«Υ	ga	11	
91	gai	巜历	gaı	1 1 1	/	92.	gan	《马	gan	1 11	
93	gang	巜尢	gaŋ	1 1	/	94.	gao	《幺	gao	1 11	
95	ge	《さ	gν	111	/	96.	gei	/ \(\(\)	ge	✓	
97	gen	« 5	gən	✓ ✓ ✓		98.	geng	« L	gʌŋ	1 11	
99	gong	(XX	guŋ	✓ ✓ ✓	/	100.	gou	《又	gou	1 11	
101	0	(X _	gu	111	/	102.	gua	«×Y	gua	1 11	
103	•	《ㄨ芴	guai	✓ ✓ ✓	- 1	104.	guan	《×弓	guan	1 11	
105	10	(XXt	guaŋ	V V V		106.	gui	// X X	gue	/ / /	
107	5	(XX	gun	√ √	'	108.	guo	« x z	guo	////	
109	1	厂Y	xa	///	,	110.	hai	厂	хаі	////	
111	1.	厂马	xan	////	- 1	112.	hang	厂	xaŋ		
113	1	厂幺	xao	///	'	114.	he	厂さ 厂さ	XΛ	/ / /	
115	1	厂	xe	√ √ √ √	,	116.	hen hong	厂 与 厂 メ	xən		
117	1.	,	xvu xo		- 1	118.	nong hu		xuŋ	/ / / /	
119	1.	, ス 	xua		- 1	120. 122.	huai	/ / / 厂 X	xu xuai	\ \ \ \ \ \	
123	1.	, ス - 厂 X 弓	xuan	////		124.	huang	,	xuan		
125	1	/ X \ ГХ\	xue	////		124.	hun	,	xuaij	/////	
127	١.	ГХТ	xuo	111		128.	ji		d3i	111	
129	1	, , , , , , , , , , , , , , , , , , ,	dzia	111	- 1	130.	jian	 니 - 무	dzien n	/ //	
131	1	· · · · · · · · · · · · · · · · ·	dzian n	1 1		132.	jiao	山一幺	dziao o	1111	
133	11.	и— и	dzie	111		134.	jin	4-5	dzin	/ //	
135	11.	і Н — <u>Г</u>	dzīŋ	1 1 1	- 1	136.	jiong		dziuŋ ŋ	✓	
137	11.	니-又	dziu	1 1 1	- 1	138.	ju ju	⊣ ⊔	d3y ,	1111	
139	1:	니⊔ㄢ	dzyan n	1 1 1	/	140.	jue	니니世	d3yε	11 1	
141	jun	4 ⊔ 5	dʒyn	✓ ✓	/	142.	ka	5 Y	ka	/ //	
143	kai	万历	kaī	1 1	/	144.	kan	万马	kan	1 11	
145	kang	万九	kaŋ	111	<u> </u>	146.	kao	5幺	kao	/ /	

1 14	17. ke	万さ	kΛ		148.	ken	5 与	kən	
14	9. keng	5	k∧η	///	150.	kong	ちメム	kuη	
	sı. kou	5	ko		152.	ku	ラスニ	ku	1 11
	1	5 X Y	1	!!!	II	1	5 X	I	
	зз. kua	1	kua		154.	kuai		kuai	
15		5×3	kuan	/ /	156.	kuang	5メナ	kuaŋ	
15	57. kui	ラメて	kue		158.	kun	ラメケ	kun	
15	s9. kuo	ラメと	kuo	✓	160.	la la		la	
16	51. Iai	为	laı		162.	lan		lan	
16	sa. lang	力	lan		 164.	lao	为幺	lao	
	65. le	カさ カさ	lo lo		166.	lei	为飞	le	1111
16	1.	カ し カ ム	lʌŋ		168.	li	分	li	1111
	-	カー カー Y		!!!			<i>为</i> 		!
16	1	I	lia		170.	lian		lien	
17	0		liɑŋ		172.	liao	为一幺	liao	
17	1	カーせ	liε		174.	lin	为一与	lɪn	
17	75. ling	カーム	lɪŋ		176.	liu	カーヌ	liu	
17	77. long	カメム	luŋ		178.	lou	カヌ	lo	
17	⁄9. Iu	カメ	lu		180.	lü	カロ	ly	
18		カロせ	lyε	/	 182.	luan	为 メ 马	luan	
18	١.	カメ与	lun	11 1	184.	luo	カメ カメ で	luo	1111
18		ПΥ	ma		186.	mai	万万 □	mai	
	35. 111 a 37. man		man		186.	mang	I		
	1	1		I .	II			maŋ	
18	!	□幺	mao		190.	me	Пţ	mə	\
19	1		me		192.	men		men	
19	5	П L _	mʌŋ		194.	mi	□ −	mi	
19	5. mian	口一弓	miεn		196.	miao	□-幺	miao	
19	o7. mie	⊓−世	miε	/ /	198.	min	□ − 与	min	
19	9. ming	$ \Pi - L $	min		200.	miu	ローヌ	miu	/ /
20	o1. mo	⊓ट	mo	1111	202.	mou	ПХ	mou	
20	1	ПХ	mu		 _{204.}	na	3 Y	na	
20		3 男	nai		206.	nan	3 克	nan	111
	- 1	3	nan		208.	nao	3 4	nao	
20		うた うさ	1 -			1	3		
20	1	1	nə		210.	nei		ne	
21		34	nən	/	212.	neng	3 L	nʌŋ	
21	з. ni	3-	ni !		214.	nian	3-3	nien	
21		ろー	niaŋ	✓ ✓	216.	niao	3一幺	niao	
21	7. nie	ろーせ	niε	/ /	218.	nin	3-5	nin	
21	9. ning	ろーム	niŋ		220.	niu	ろーヌ	niu	
22	ı. nong	3 X L	nuŋ		222.	nou	3 ヌ	nou	
22		3 X	nu		224.	nü	3⊔	ny	
22	1	3 X G	nuan		226.	nüe	- ろ山せ	nyε	
22	1	3 X Z	nuo		228.	0	र र	5	11
	1	ヌ	0		II		b 女子		
22		1		!	230.	pa		pa	
	31. pai	女历	pai		232.	pan	女马	pan	
23	1.	女士	paŋ		234.	pao	幺幺	pao	
23	1.	女し	pe		236.	pen	女与	pən	
23	37. peng	女 L	pʌŋ		238.	pi	女一	pi	
23	9. pian	ター 弓	piεn		240.	piao	ター幺 しょうしょう	piao	
24	11. pin	ター与	pin	1111	242.	ping	ターム	piŋ	11
24	1.	タと	po	1111	244.	pou	タヌ ママ	po	/ /
24	1.	女X	pu	1111	246.	qi	<-	ʧi	1111
	17. qia	<-Y	tʃia	1111	248.	'.	`	ţίεn	1111
	7. YIU	` '	y ·u	- · · ·	H 240.	HIGH	, <i>I</i>	91011	- · · ·





ı	page	14

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CHAPTER 2. PHONES OF MANDARIN CHINESE

249.	qiang	く一九	ʧiaŋ	/ / / /	250.	qiao	く一幺	tʃiao	
251.	qie	くーせ	tίε		252.	qin	\ \ \ - \ \ \	t(in	1111
253.	qing	\ \ - L	្យូមូល ម្ប់រក្ស		254.	qiong	< 🗆 🕹	tίuη	
255.	qiu	くーヌ	t(io		256.	qü qü		ʧy	
	1 -		tyan			l -		1	
257.	quan	\ U ¬	1	!!!	258.	que		tfyε	
259.	qun		tʃyn		260.	ran	ı	∤an	
261.	rang	回九	_l aŋ		262.	rao	□ 幺	₁ ao	
263.	re	回さ	\18		264.	ren		l 4ən	
265.	reng		{vn		266.	ri		{	
267.	rong	OXL	լ _վ uŋ	🗸 🗸	268.	rou		10	
269.	ru	ΩX	Įu		270.	ruan	🛛 X 弓	_l uan	✓
271.	rui	ΓX□	_λ ue		272.	run	🛛 X 与	۱۸۸	✓
273.	ruo	ΔXτ	cuy	/ / /	274.	sa		sa	/ / / /
275.	sai	ム历	saı	/ /	276.	san	ム弓	san	1 11
277.	sang	ムカ	saŋ		278.	sao	ム幺	sao	/ / / /
279.	se	ムさ	รช	/ / /	280.	sen	44	sən	/
281.	seng	LL	s∧η	/	282.	sha	戸丫	şa	1111
283.	shai	戸	şaı	1 11	284.	shan		şan	111
285.	shang	, , , , 	san		286.	shao	, , , ,	şao	1111
287.	she	, アさ	βΛ		288.	shei	 戸 \	se se	
289.	shen	, 	şən		290.	sheng	ァ <u>、</u> アレ	ຸ ຣຸດ ຣຸ៱ŋ	1111
291.	shi	, 	ιος ξ	11111	292.	shou	,	\$3 \$3	
	shu	, アメ	`			shua		1	
293.	1	,	şu		294.	1		şua	
295.	shuai		şuai		296.	shuan	ı	şuan	
297.	shuang		şuaŋ		298.	shui	アメ〔	şue	
299.	shun		នុun		300.	shuo	P X Z	şuo	
301.	si	<u> </u>	sw		302.	song	LXL	suŋ	
303.	sou	ムヌ	so	 	304.	su	L X	su	
305.	suan	ム X 引	suan	✓ ✓	306.	sui	LXY	sue	
307.	sun	4 X 5	sun		308.	suo	ムメで	suo	
309.	ta	太 丫	ta	 	310.	tai	太	taı	
311.	tan	太 弓	tan		312.	tang		taŋ	
313.	tao	太幺	tao		314.	te	太さ	tε	/ /
315.	teng	士	tʌŋ	✓	316.	ti		ti	111
317.	tian	太 一马	tiεn		318.	tiao	廿一幺	tiao	
319.	tie	ムーせ	tiε	/ /	320.	ting	オー ム	tiŋ	1111
321.	tong	ムメ L	tuŋ		322.	tou	太又	to	
323.	tu	±Χ	tu	1111	324.	tuan	カメ 弓	tuan	11
325.	tui	±X7	tuei	1111	326.	tun	4 X5	taan	11 1
327.	tuo	$\pm X \zeta$	tuo		328.	wa	XY	wa	1111
329.	wai	X	wai		330.	wan	X	wan	
	1		wan		332.	wei	X	we	
331.	wang	X	1 -		1	1	XL	1	
333.	wen	X Z	wen	l I	334.	weng	ı	wʌŋ	I I
335.	WO vi		wo		336.	wu	X T _ Y	wu	
337.	Xi	T	اء منعت		338.	xia	T – Y	sia	
339.	xian	丁一弓	gien		340.	xiang	T- トー ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	ູ ຣiεŋ	
341.	xiao	T-幺	siao		342.	xie	T-せ エ	3ia	
343.	xin	T-5	cin		344.	xing	T – L	giŋ	
345.	xiong	$\top \sqcup \angle$	sion		346.	xiu	T — ヌ	Sio	V V V
347.	xu	T LL	S y		348.	xuan	T⊔弓	suan	
349.	xue	<u> TU#</u>	sys_	111	350.	xun	TU5	່ຂyn	111

2.2. SPOKEN CHINESE Daniel J. Greenhoe page 15

351. 353. 355.	ya yan	- <u>Y</u>	ja	1111	352.	yai	一	jaı	
	yan	_	,		332.	yaı	//	Jai	🗸
355.	, ,	- 号	jεn		354.	yang	一 尤	jαŋ	
	yao	一幺	jao		356.	ye	ーせ	jε	
357.	yi	_	ji		358.	yin	- 5	jin	
359.	ying	- L	jiŋ		360.	yong	$\sqcup L$	joŋ	
361.	you	一又	ju		362.	yu	Ц	jy	
363.	yuan		jyan		364.	yue	Цť	јуε	/
365.	yun		jyn		366.	za	-	dza	✓
367.	zai	卫罗	ozai	/ / / /	368.	zan	卫马	dzan	
369.	zang	卫 尢	dzaŋ	/ /	370.	zao	卫幺	dzao	
371.	ze	でさり	dzγ		372.	zei	厂叮	dze	
373.	zen	卫 与	dzən	/ /	374.	zeng	PL	dz∧ŋ	/ /
375.	zha	里 人	zа		376.	zhai	业	zaı	
377.	zhan	坐 马	zan	1 11	378.	zhang	业尤	zaŋ	/ / / /
379.	zhao	业幺	zao		380.	zhe	坐さ	বু જ	
381.	zhen	业 与	zən 💮	/ / / /	382.	zheng	业人	z∧ŋ	/ / / /
383.	zhi	业	۲٦		384.	zhong	単メ	zuŋ	/ / / /
385.	zhou	坐 又	ζοu		386.	zhu	业 人	ζZU	
387.	zhua	小 人以	zua	/ /	388.	zhuai	业メ死	zuai	/ / / /
389.	zhuan	业 又 弓	zuan	/ / / /	390.	zhuang	业メ尢	zuaŋ	
391.	zhui	ノメ虫	zui	/ /	392.	zhun	坐メ 与	zun	/ /
393.	zhuo	田 又 て	zuo	 	394.	zi	丁	dzw	/ / / /
395.	zong	ΡΧL	dzuŋ	/ / / /	396.	zou	모고	ďzο	/ / / /
397.	zu	ŢХ	dzu		398.	zuan	РХЧ	dzuεn	V V V
399.	zui	ГХŢ	dzui	///	400.	zun	ΡΧЬ	dzun	✓
401.	zuo	T X T	dzuo						
	357. 359. 361. 363. 365. 367. 369. 371. 373. 375. 377. 381. 383. 385. 387. 389. 391. 393.	357. yi 359. ying 361. you 363. yuan 365. yun 367. zai 369. zang 371. ze 373. zen 375. zha 377. zhan 379. zhao 381. zhao 381. zhi 385. zhou 387. zhua 389. zhua 391. zhui 393. zhuo 395. zong 397. zu 399. zui	yi	yi	357. yi	357. yi	ying 一	357. yi	357. yi













CHAPTER 3	
	GRAPHEMES OF MANDARIN CHINESE

3.1 Language scripts

Many spoken languages also have written forms, which express information in terms of symbols, called *graphemes*. Linguists roughly classify written languages into two categories based on the graphemes that they use:

① *phonograms* (or *phonographs*) symbols represent sounds

② logogram (or logographs) graphemes represent words

The advantage of a phonogram is that it is somewhat easier to know how a grapheme "sounds", but relatively more difficult to know what it means. The advantage of a logogram is that it is somewhat easier to know what a grapheme means, but relatively more difficult to know how it "sounds".

Examples of Phonographic languages include all the written languages based on the Latin alphabet such as English, German, Spanish, French, etc., as well as Greek and other languages. One of the most famous examples, howbeit not currently in common use, of a logograph is Egyptian hieroglyphics, a language that the entire world forgot how to read until the discovery of the *Rosetta Stone* by Napolean's troops and subsequent decipherment by Thomas Young and Jean-Francois Champollion.

Example 3.1 (U.S. National Park Service). And the *U.S. National Park Service* uses a kind of logographic language, as illustrated in Figure 3.1 (page 18).¹

In any written language (a script), each basic written picture is called a **grapheme**. In English, a grapheme is usually called a "character". In Chinese, a grapheme is usually called a "character". In general there are many ways to render (or draw) any given grapheme. Each such rendering is called a **glyph**.

Example 3.2 (The "a" grapheme).



In English, all these glyphs (font typefaces) represent the same grapheme (character):

Ö, a, a, a, a, a

Example 3.3 (The 山 grapheme). ²

¹ http://en.wikipedia.org/wiki/File:National_Park_Service_sample_pictographs.svg

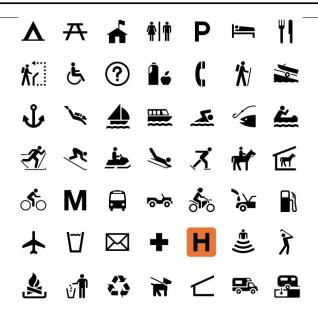


Figure 3.1: Pictographs used by the U.S. National Park Service

In Chinese, all of these **glyphs** (font typefaces) represent the same **grapheme** (character): E X

Example 3.4 (Egyptian Hieroglyphs). 3 The English **script** is mostly phonetic. The Chinese **script** is mostly ideographic. Egyptian Hieroglphics combines

phonetic graphemes

(e.g. ="h" sound, ="n" sound, ="w" sound)

ideographic graphemes (e.g. \eth =liquid, \mathbb{Z} =jubilation, \mathbb{Z} =man, \mathbb{Z} =woman, |||=plural)

Arabic

Here are some examples:

EX

h+n+w+liquid beer pot h+n+w+jubilation rejoicing h+n+w+(man and woman neighbors over a plural symbol)

Example 3.5 (Assorted scripts). Here are some examples of scripts and graphemes belonging to those scripts:

ΑΒΓΔΕΖΗΘΙ…ΤΥΦΧΨΩ αβγδεζηθικλμνξοπροτυφχψω Greek ABCDEFGHI...UVWXYZ abcdefghijklmnopqrstuvwxyz Latin Hebrew נסעףפץצקרשתוו אבגדהוזחטיךכלםמן

ذرزسشصضطظعغ ابةتثجحخد

そべ3エシンへにいんのれんえい ない

Tagalog Egyptian Hieroglyphs

Sears (2017): Chinese Etymology (http://hanziyuan.net/#%E5%B1%B1: J21374, S06639, L06208, B14280) 3 Atiya (2006): Ancient Egypt page 52





3.2. CHINESE GLYPHS Daniel J. Greenhoe page 19

3.2 Chinese glyphs

By far the most commonly used logographic language in the world today is Chinese. This logograph, as far as current common use is concerned, comes in two forms, *traditional Chinese* and *simplified Chinese*. In much of this text, typesetting is performed as illustrated to the right with PinYin (see Section 1.3.1 page 6) on top, the traditional character below that, the simplified character below that, and English meanings below that.



Because Chinese is a *logographic* language, sometimes one can make an educated guess as to the meaning of a grapheme (called a *character* for the Chinese written language) by the way it "looks". For example, the character \coprod means "mountain", and it kind of looks like a three peak mountain. In some older forms, the resemblence is even closer (see Example 3.3 page 17).



But this only really works for some characters. Over the centuries since the publication in 121 A.D. of 說文解字 (Shūo Wén Jiě Zì) by 許慎 (Xǔ Shèn), characters are often organized into these six categories:4

① pictographs	② ideographs	③ associative compounds		
xiàng xíng	zhĭ shì	hùi yì		
│ 象 形	指 事	會意		
象 形	指事	会 意		
appearance shape	finger affair	to meet meaning		
	⑤ false barrowings	6 semantic derivations		
xíng shēng	jiě jià	zhǔan zhù		
│ 形 聲	假 借	轉 注		
形声	假 借	转 注		
shape sound	false to barrow	to turn to pour		

Example 3.6 (pictographs). Here are some examples of pictographs:

shŭi	streams flowing	rén	a person standing	rén	the two legs of a
水	together	人	two legs	儿	person
水		人		/Լ	
water		person		person	
rù	roots descending	ĥ	a tendon	dāo	a knife
入	into the ground	カ		刀	
入		カ		刀	
to enter		force		knife	
dīng	a nail	jī	a small table or	dà	resembles a
丁		几	stool	大	standing person
丁		几		大	with open arms
nail		small table		big	

[🗪] 許慎 (121): 說文解字注 (Shūo Wén Jiě Zì Zhù, Explanatory Notes of Chinese Characters)



Ross and heng Sheng Ma (2006): Modern Mandarin Chinese Grammar: A Practical Guide pages 14-15

[►] Harbaugh (2009): 中文字譜 Chinese Characters: A Genealolgy and Dictionary

1	resembles a	yì	a stake	<u>jī</u>	a stool or
1 '	person lying	ť		Д	workbench
尸 (down	せ		Л	
corpse		stake		stool	
1	earlier form was	gān	a shield	gōng	a carpenter's
1 ' -	an encompassing	王		エ	square
凡 :	square	干		エ	
all		shield		work	
3	a hollowed out	jīn	a hanging	nů	a kneeling
	piece of wood	巾	handkerchief	女	woman
		巾		女	
		cloth		woman	
ži	an infant with legs	yě	an ancient funnel	jiàn	resembles an eye
ji ii i	bundled together	也	or wash basin	見	
子		也		见	
son		also		to see	
I <u></u>	resembles an	mù	resembles a tree	kū	resembles a
1	open mouth	木		哭	person with two
		木		哭	tear drops in the
mouth		wood/tree		to cry	eyes
411	resembles a	shān	resembles a three	shàng	the vertical and
,	walking person	山	peak mountain	上	small strokes are
去		Щ		上	above the long
to go		mountain		above	horizontal stroke
1	the diagonal and	xiào	resembles a	zhǎo	resembles the
1 '	small strokes are	笑	smiling person	爪	claw of an animal
	below the long	笑	with a moustache	爪	(e.g. lion)
below	horizontal stroke	to smile		claw/talon	

Moreover, complex characters are sometimes constructed from more primitive ones. If you know the meaning of the primitive characters, it can help suggest the meaning of some complex ones.

Example 3.7 (Complex from primitive).

lín 林木 林木 forest	resembles two trees (木) as in 林=木+木.	sēn 森 森 trees	resembles three trees as in 森=木+木+木
xiān 仙 仙 celestial being	resembles a man (亻, rén) of the mountains (山, shán).	hǎo 好 好 good	life is good for a man who has a wife (女=woman, nǚ) and son (子, zi)
bǎo 保 保 to protect	a man (亻, rén) with a baby (呆, dāi)	chuán 船 船 boat	chuán = zhou + bā + kǒu ; ⁵ 船 舟 八 口 船 舟 八 口 boat boat 8 mouth

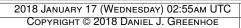
3.3 Onomatopoeia characters

Despite Chinese being a logographic language and therefore characters represent meanings rather than sounds, there are some characters that, although they have meanings, are not primarily used for those meanings, but rather are primarily used just for the sound that they make. That is, these characters represent *onomatopoeias*. Most of these characters contain the \square (kou, mouth) characters indicating that the character represents a sound (made with the mouth). If you wish to write, say, stories for children, then such characters may come in very handy. Table 3.3 provides some examples of such characters, while Example 3.8 (page 23) illustrates their use with sentences.⁶

Table 3.3: Onomatopoeias characters

ā	the "ah" sound made such as	āi	the expression "hey" or "ah";
			•
啊	when scared	哎	can be used together with 唷
啊		哎	as an exclamation as in 哎唷!
			(āi yó!)
aó	嗷=口+敖 (aò, proud)	bā	the honking sound of a car;
嗷		│ □\	叭=□+八 (bā, 8)
嗷		贝	
cry of hunger		trumpet	
bā		bì	the "beep" sound of a whistle
吧		嗶	·
吨			
(a particle)		'T	
chī	sound of ripping paper	dāna	metallic crashing sound
1	sound of ripping paper	dāng n兴	metallic crashing sound
嗤		噹	
嗤		当	
to sneer			
dīng	used with 咚 (dōng) for the	dōng	sound of a drum, sound of
一叮	"ding-dong" sound of a	咚	falling object impacting the
一直	doorbell	咚	ground
to sting		-	· ·
dū	the "toot" sound of vehicles	gā	the "quack quack" sound of
嘟	such as trains; 嘟=口+都 (dū,	嘎	ducks as in "嘎嘎"
嘟	big city)		222.12.00.11. 2.2.
		1	
gé	a click	gū	the hooting sound of an owl,
咯		咕	the crowing shound of a
咯		咕	rooster
a click		to murmur	

⁽²⁰⁰⁷f)車車說話 (chē chē de shūo hùa—cars are speaking)











 $^{^{5}}$ 船 = 舟+八+口: Interestingly enough, this has similarity to the Biblical account of the flood in Genesis 6–9.

^{► (2007}a)動物說話 (dòng wù shūo hùa—animals are speaking 1)

⁽²⁰⁰⁷b)動物說話 (dòng wù shūo hùa—animals are speaking 2)

⁽²⁰⁰⁷d)生活說話 (shēng húo shūo hùa—life is speaking 1)

⁽²⁰⁰⁷e)生活說話 (shēng húo shūo hùa—life is speaking 2)

^{► (2007}c)有聲世界 (yǒu shēng shì jiè—sounds of the world)

gūa 呱 呱	the "ribbet ribbet" croaking sound of frogs as in "呱呱"	hā P合 P合 to breathe on	the "ha ha" laughing sound as in "哈哈!", the "achoo" sneezing sound as in 哈啾 (hā jiū)
hāi ⁷ 嗨 嗨 "hi""	the greeting "Hi"	h <mark>ǒu</mark> 歼 歼 to roar	the roaring sound of a lion
hū 呼 呼 to exhale	呼=口+乎 (hū, at)	h <mark>ūa</mark> 嘩 哗	sound of a wave; 嘩=口+華 (húa, China)
hùo 嚄 嚄	the "oink" sound of pigs	jī 唧 唧 pump	the chirping sound of crickets as in "唧唧"
<mark>jï</mark> 嘰 叽 to talk indistinctly	the chirping sound of birds as in "嘰嘰"	jiū 啾 啾 chirping sound	the chirping sounds of birds or insects
kòu III III to knock	the sound of knocking on a door	la 中立 中立	
miāo 喵 喵 "meow"	the sound of cats as in "喵…喵"	miē 咩 咩	the bleating sound (口) of goats (山羊);
móu 哞 哞	the lowing sound (口) of cows (牛)	l <mark>ū</mark> 嚕 噜 verbose	used with 咕 (gū, to murmur) to describe a hungry stomachas in "咕嚕 咕嚕!"
lūo 囉 啰 to chatter	used at end of sentences as in "oh!"	· · · · · · · · · · · · · · · · · · ·	an exclamation or crowing sound of roosters;
pā 啪 啪		pēng 石平 石平	sound of a bouncing ball
pīng 乒 乒	sound of a piano	pū 噗 噗	the "putt putt" sound of a slow vehicle
sī 嘶 嘶	the neighing sound of a horse	tà 嗒 嗒 dejected	



Example 3.8 (Onomatopoeias).

8 gōng 1. gū gū gū jiào zhe tiān liàng 叫 著 ,天 咕 咕 咕!公 0 咕咕!公 天 鸡 吅 着 sky bright (change of state) male chicken to call (adverbial) rooster

"Cock-a-doodle-doo!", the rooster crowed, and the sky became bright again.

2. huáng niú de dù gū Ιū gū Ιū jiào 子 肿 叫 的 餓 咕 嚕 咕 傯 0 黃 得 咕 吅 0 昔 的 肚 饿 噜 咕 噜 stomach son hungry to the extent of (a sound) (a sound) (a sound) to call yellow cow 's stomach "gurgle"

Yellow Cow's stomach was so hungry that with a "gurgle gurgle" it called out.

3. hā hā bīn bīn hǎo xiàng găn mào jiū jiū 0 哈 啾 哈 啾 彬 彬 好 像 感 冒 哈 啾 哈 啾 彬 彬 好 像 感 to breathe chirps to breathe chirps intelligent intelligent good to resemble to feel to emit achoo achoo Bin-Bin to catch a cold to seem

"Achoo! Achoo!" It seems Bin-Bin has caught a cold.

4. kòu kòu kòu zhè śhi mén wài xiǎng qiāo mén shēng yi/-n de 門 音 叩 !狺 外 耙 時 敲 吅 ! PD ! PD !汶 外 起 声 时 响 敲 to knock door outside sound to start to knock time door ('s) sound sound to knock at the door sound

➡ 黃慧敏 (2006): 阿尼要搬家 (ā ní yào bān jiā—Annie wants to move), page 7

► 張晉霖 (2005b): 一塊錢·買一個夢 (yí kùai gián · mǎi yī ge mèng), page 27

► 幼福編輯部 (2005): 大黃牛學勤勞 (dà huáng níu xúe qín láo—Big Yellow Cow Learns Diligence), page 22

10 庵 張晉霖 (2005c): 哈啾不見了 (hā jiū bú jiàn le—"Achoo" No More), page 1

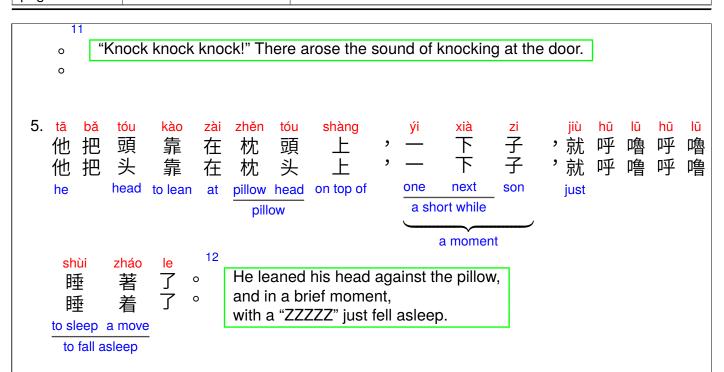






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Daniel J. Greenhoe



Radicals

Many Chinese characters contain a sub-component called a radical. Identifying this radical can be helpful in recalling the meaning of the character or to locate the character within a Chinese dictionary. Probably the most well known set of radicals is referred to as the Kangxi radicals, and are presented in the following table. 13

kāng	χī	bù	shŏu
康	熙	部	首
康	臣.	部	音
逐	74	미	Ħ
health	sunny	part	head
Kar	ngxi	rac	dical

1 stroke										
1.	_	ӯі	one		2.		shù	line		
3.	`	zhǔ	dot		4.	J	piě	slash		
5.	Z	ўi	second		6.	J	júe	hook		
			2 st	troke	es					
7.	_	èr	two		8.		tóu	lid		
9.	人	rén	man		10.	儿	ér	legs		
11.	入	rù	enter		12.	八	bā	eight		
13.		jiŏng	down box		14.		mì	cover		
15.	>	bīng	ice		16.	几	jī	table		
17.	Ц	kǎn	open box		18.	刀	dāo	knife		
19.	力	lì	power		20.	勹	bāo	wrap		
21.	上	bĭ	spoon		22.		fāng	right open box		
23.		χì	hiding enclosure		24.	+	shí	ten		
25.		bǔ	divination		26.	D	jié	seal		
27.	厂	hǎn	cliff		28.	Δ	sī	private		
29.	又	yòu	again							
	3 strokes									

[►] 張晉霖 (2005d): 白雲枕頭 (bái yún zhěn tóu—White Cloud Pillow), page 23

^{12 ■} 張晉霖 (2005d): 白雲枕頭 (bái yún zhěn tóu—White Cloud Pillow), page 27

[►] Allen (2008): The Unicode Standard 5.1.0 (http://www.unicode.org/charts/PDF/U2F00.pdf)

McNaughton and Ying (1999): Reading & Writing Chinese...

3.4. RADICALS Daniel J. Greenhoe page 25

32. 34. 36. 38. 40. 42. 44. 46. 48. 50. 52. 54. 56. 58.	Langle	mouth earth go evening woman roof small corpse mountain work turban short thread long stride shoot snout step	strok	31. 33. 35. 37. 39. 41. 43. 45. 47. 49. 51. 53. 55.	口士タ大子寸尢中巛己干广廾弓彡	wéi shì sūi dà zĭ cùn wāng chè chūan jĭ gān yăn gŏng gōng shān	enclosure scholar go slowly big child inch lame sprout river oneself dry dotted cliff two hands bow bristle	
63. 65. 67. 69. 71. 73. 75. 77. 79. 81. 83. 85. 87. 89.	心戶支文斤无曰木止殳比氏水爪爻片牛 xīn hà hī wén yū yūù shù shuáo piàn niú	heart door branch script axe not say tree stop weapon compare clan water claw double x slice cow	strok	62. 64. 66. 68. 70. 72. 74. 76. 78. 80. 82. 84. 86. 88. 90.	戈手攴斗方日月欠歹毋毛气火父爿牙犬	gē shŏu pǔ dŏu fāng rì yùe qiàn dǎi wú máo qì hǔo fù qiāng yá qǔan	halberd hand wrap dipper square sun moon lack death do not fur steam fire father half tree trunk fang dog	
97. 99. 101. 103. 105. 107. 109. 111. 113. 115. 117.	玄 xúan gūa gān yòng bò zhǎo zhǎi shì iù zhú sī wǎng	profound melon sweet use bolt of cloth dotted tent claw eye arrow spirit grain stand	strok	96. 98. 100. 102. 104. 106. 108. 110. 112. 114.	玉瓦生田疒白皿矛石内穴 米缶羊	yù wă shēng tián nì bái mǐn máo shí rŏu xúe mĭ fŏu yáng	jade tile life life field sickness white dish spear stone track cave rice jar sheep	





124. 126. 128. 130. 132. 134. 136. 138. 140. 142. 144.	羽而耳肉自臼舛艮艸虫行襾	yŭ ér řou zì jiù chŭan gèn căo chóng xíng xià	feather and ear meat self mortar oppose stopping grass insect walk enclosure west		125. 127. 129. 131. 133. 135. 137. 139. 141. 143.	老耒聿臣至舌舟色虍血衣	lăo lěi yù chén zhì shé zhōu sè hū xùe yī	old plow brush minister arrive tongue boat color tiger blood clothes
7 strokes								
147. 149. 151. 153. 155. 157. 159. 161. 163.	見言豆豸赤足車辰邑釆	jiàn yán dòu zhì chì zú chē chén yì biàn	see speech bean badger red foot cart morning city distinguish		148. 150. 152. 154. 156. 158. 160. 162. 164.	角谷豕貝走身辛辵酉里	jiǎo gǔ shǐ bèi zǒu shēn xīn chùo yǒu Iĭ	horn valley pig shell run body bitter walk wine village
			8 s	trok	25			
167. 169. 171. 173. 175.	金門隶雨非	jīn mén dài yǔ fēi	gold gate slave rain wrong	-	168. 170. 172. 174.	長阜隹靑	cháng fù zhūi qīng	long mound short tailed bird blue
			9 s	troke	es			
176. 178. 180. 182. 184. 186.	面韋音風食香	miàn wéi yīn fēng shí xiāng	face tanned leather sound wind eat fragrant	strok	177. 179. 181. 183. 185.	革韭頁飛首	gé jiŭ yè fēi shŏu	leather leek leaf fly head
		v		SUUK			v	
187. 189. 191. 193.	馬高門鬲	mă gāo dòu lì	horse tall fight cauldron	strok	188. 190. 192. 194.	骨髟鬯鬼	gǔ biāo chàng gǔi	bone hair sacrificial wine ghost
				strok	es			
195. 197. 199. 201.	魚鹵麥 黃岡	yú lŭ mài huáng	yellow	strok	202.	鳥鹿麻 黍类	niǎo lù má shǔ	bird deer hemp millet
203.	黑	hēi	black		204.	黹	zhĭ	embroidery
			13.9	strok	es			
205.	黽	mĭn	frog		206.	鼎	dĭng	tripod
207.	鼓	gŭ	drum		208.	鼠	shǔ	rat



3.4. RADICALS Daniel J. Greenhoe page 27

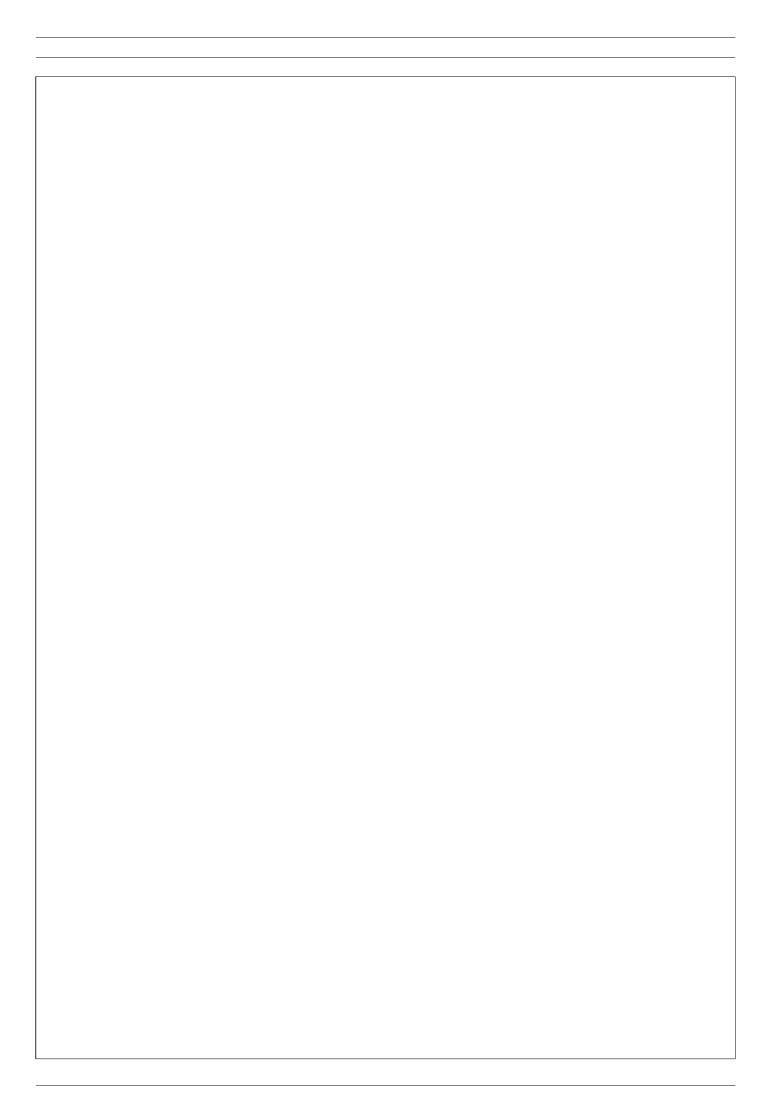
			1	4 stro	kes			
209.	鼻	bí	nose		210.	齊	qí	even
15 strokes								
211.	齒	chĭ	tooth					
			1	6 stro	kes			
212.	龍	lóng	dragon		213.	龜	gūi	tortoise
			1	7 stro	kes			
214.	龠	yùe	flute					











APPENDIX A			
			_NUMBERS

Table A.1: Numbers

English	Chinese (中文)	English	Chinese (中文)
0	líng 零 零	1	<u>yī</u> —
2	er — —	3	sān = =
4	sì 四 四	5	wŭ 五 五
6	lìu 六 六	7	qī 七 七
8	bā 八 八	9	jĭu 九 九
10	shi + +	11	shi yī + — + — 10 1
12	shi er	13	sKi sān + = + = 10 3
14	shi sì 十 五 十 五 10 4	15	shi wŭ 十 四 十 四 10 5
			continued on the next page

English	Chinese (中文)	English	continued from the previous page Chinese (中文)
16	shi lìu 十五 十五	17	shi qī + 六 + 六 10 7
18	shi bā 十 八 十 八 10 8	19	shi jĭu 十九 十九 10 9
20	er shí - + - + 2 10	21	er shí yī - + - - + - 2 10 1
22	er shí er - +	23	er shí sān - + = - + = 2 10 3
24	er shí sì 二 十 四 二 十 四 2 10 4	25	er shí wu 二 十 五 二 十 五 2 10 5
30	sān shí = + = + 3 10	31	sān shí yī = + - = + - 3 10 1
32	sān shí er = + = = + = 3 10 2	40	sì shí 四 十 四 十 4 10
50	wŭ shí 五 十 五 十 5 10	60	lìu shí 六 十 六 十 6 10
70	qī shí 七 十 七 十 7 10	80	bā shí 八 十 八 十 8 10
90	jĭu shí 九 十 九 十 9 10	93	jju shí sān 九 十 三 九 十 三 9 10 ³
100	yī bǎi 一 百 一 百 1 100	200	er băi 一 百 一 百 2 100

F. aliah		Frantish	continued from the previous page
English 300	Chinese (中文) sān bǎi 三 百 三 百 3 100	400	Chinese (中文) sì bǎi 四 百 四 百 4 100
500	wǔ bǎi 五 百 五 百 5 100	600	lìu bǎi 六 百 六 百 6 100
700	qī bǎi 七 百 七 百 7 100	800	bā bǎi 八 百 八 百 8 100
900	九 百 九 百 九 百 9 100		
1,000	yī qiān 一 千 一 千 1 1000	2,000	liǎng qiān 二 千 二 千 2 1000
3,000	sān qiān 三 千 三 千 3 1000	4,000	sì qiān 四 千 四 千 4 1000
10,000	yī wàn 一 萬 一 万 1 10 ⁴	20,000	liǎng wàn 二 萬 一 万 2 10 ⁴
30,000	sān wàn 三 萬 三 万 3 10 ⁴	40,000	sì wàn 四 萬 四 万 4 10 ⁴
100,000	shí wàn 十 萬 十 万 10 10 ⁴	200,000	liăng shí wàn 二 十 萬 二 十 万 2 10 10 ⁴
300,000	sān shí wàn 三 十 萬 三 十 万 3 10 10 ⁴	400,000	sì shí wàn 四 十 萬 四 十 万 4 10 10 ⁴
1,000,000	yī bǎi wàn 一 百 萬 一 百 万 1 100 10 ⁴	2,000,000	liăng bǎi wàn 二 百 萬 二 百 万 2 100 10 ⁴









APPENDIX A. NUMBERS page 34 Daniel J. Greenhoe

			continued from the previous page
English	Chinese (中文)	English	Chinese (中文)
3,000,000	sān bǎi wàn 三 百 萬 三 百 万 3 100 10 ⁴	4,000,000	sì bǎi wàn 四 百 萬 四 百 万 4 100 10 ⁴
10,000,000	yī qiān wàn 一 千 萬 一 千 万 ¹ 1000 10 ⁴	100,000,000	yī yì 一 億 一 亿 1 10 ⁸
one billion (10 ⁹)	shí yì 十 億 十 亿 10 10 ⁸	ten billion (10 ¹⁰)	yī bǎi yì 一 百 億 一 百 亿 1 100 10 ⁸
one hundred billion (10 ¹¹)	yī qiān yì 一 千 億 一 千 亿 1 1000 108	one trillion (10 ¹²)	yī wàn yì 一 萬 億 一 万 亿 1 10 ⁴ 10 ⁸
ten trillion (10 ¹³)	shí wàn yì 十 萬 億 十 万 亿 10 10 ⁴ 10 ⁸	one hundred trillion (10 ¹³)	yī bǎi wàn yì 一 百 萬 億 一 百 万 亿 1 100 10 ⁴ 10 ⁸



APPENDIX B_____

Chinese names typically consist of three characters. The first character is the family name. The next two characters are the given name. To the right is an example using actor "Jackie Chan's" Chinese name:

Chén	găng	shēng
陳	港	牛
陈	港	<u>一</u> 生
1731	, _	
to lay out	a port	to give birth

NAMES

B.1 Family Names

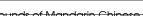
A list of some Chinese surnames follows. ¹ For pairs of characters, the one on the left is *traditional*, and the one on the right is *simplified*.

			Common famil	y nai	mes		
白	白	Bái	white	蔡	蔡	Cài	a large turtle
曹	曹	Cáo	(a plural particle)	常	常	Cháng	common; normal
陳	陈	Chén	to arrange	埕	埕	Chéng	
催	催	Cūi	high and steep	戴	戴	Dài	to wear
鄧	邓	Dèng		丁	丁	Ding	
董	董	Dŏng	to oversee	杜	杜	Dù	to plug
段	段	Dùan	a section	范	范	Fàn	bee
方	方	Fāng	square	馮	冯	Féng	
傅	傅	Fù	a teacher	高	高	Gāo	high; tall
龔	龚	Gōng	reverential	顧	顾	Gù	to turn around and look
郭	郭	Gūo	town	韓	韩	Hán	fence
郝	郝	Hǎo	(an ancient place)	何	何	Hé	
賀	贺	Hè	to congratulate	洪	洪	Hóng	a flood
侯 黃	侯	Hóu	marquis	胡	胡	Hú	to blunder
黃	黄	Húang	yellow	賈	贾	Jiǎ	("gŭ"=merchant)
姜	姜	Jiāng	ginger	江	江	Jiāng	river

¹Reference: http://en.wikipedia.org/wiki/List_of_common_Chinese_surnames

page 36 APPENDIX B. NAMES Daniel J. Greenhoe

蔣康 蔣 King health 表 Kong hold hold hold hold hold hold hold hold								
解	蔣	蒋	Jiǎng		金	金	Jīn	gold
李 Diums	康	康	Kāng	health	孔	孔	Kŏng	hole
李 Diums	賴	赖	Lài	to rely on	雷	雷	Léi	thunder
Pe	李	李	Lĭ	plums	梁	梁	Liáng	bridge
劉 上iú to kill		廖	Liào				Liń	forest
虚 上ú black と			Liú	to kill			Lóng	dragon
Be			Lú	black	羅		_	
馬孟 Meng eldest child 中学 Niú ox		陆	Lù	land				
孟 孟 Mèng eldest child					毛			hair
議	一孟	孟	Mèng		牛		Niú	ox
钱	│潘	潘					Péng	
邱 の Oiū hill 任 任 任 Rén 次次 Shāo 史 Shī history 施 家 Shāo 史 Shī history 施 家 Shōo 史 Shī history 施 家 Shōo 明	錢	钱			秦			Qin Dynasty
部				•	任			
史 Shǐ history								
R				history				to carry out
蘇苏 Sū 谭 Tán to talk 田田 Tián agricultural land 汪汪 Wāng pool of water 韋 韦 Wéi tanned leather 吳昊 Wǔ gē gē Xià summer 蕭 萧 Xiāo oxtail southern wood; respectful 徐 徐 Xú slowly; gently; calmly 薛 萨 Xūe (a kind of marsh grass) 嚴 严 Yán stern; strict 姚 姚 Yáo handsome 尹 커 Yih to govern 袁 表 Yúan the graceful look of a flowing robe 張 光 Zhāng to spread 周 月 Zhōu Zhou Dynasty				•				to carry out
博 Tán to talk 田 田 Tián agricultural land 汪 汪 Wāng pool of water 章 韦 Wéi tanned leather 吳 昊 Wú 夏 蒙 Xia summer 蕭 萧 Xiāo oxtail southern wood; respectful (余 徐 Xú slowly; gently; calmly) 薛 薛 Xūe (a kind of marsh grass) 嚴 严 Yán stem; strict 場 揚 Yáng to raise 財 Yáo handsome 尹 尹 Yiñ to govern 袁 袁 Yúan the graceful look of a flowing robe 張 光 Zhāng to spread 周 声 Zhōu Zhou Dynasty 鍾 中揮 Zhōng bell 朱 朱 Zhū bright red Not so common family names 班 班 路高 a grade 鮑 路 abalone 畢 毕 Bì to complete 成 成 Chéng completed; accomplished 仲 仇 Chóu enemy 聚 子 Fán bird cage 學 表 fǎu to voersee 學 獎 Fán bird cage 學 長 Páng house 費 费 Fèi expediture	蘇	苏		Tooks			_	grandchild: descendent
田田 Tián agricultural land 注 注 Wāng pool of water 章 韦 Wéi tanned leather 異 是 Wú gāg ē Āxiā summer a	曹			to talk				
王 注 Wāng pool of water は tanned leather							_	
韋 韦 Wéi tanned leather 魏 魏 Wèi lofty; stately 吳 昊 Wú 武 武 Wǔ military 蘭 萧 Xiāo oxtail southern wood; respectful 熊 縣 Xióng bear 徐 徐 Xú slowly; gently; calmly 熊 縣 Xióng bear 薛 辞 Xūe (a kind of marsh grass) 姚 姚 Yáo handsome 嚴 严 Yán stern; strict 揚 扬 Yáng to raise 姚 姚 Yáo handsome 葉 叶 Yè leaf 尹 尹 Yiñ to govern 曾 Zēng (a 4th generation relationship) 張 张 Zhāng to spread 趙 赵 Zhào (an ancient feudal state) 周 Zhōu Zhou Dynasty 鄭 郑 Zhèng solemn 鍾 钟锺 Zhōng bell Zhèng solemn 東 朱 Zhū bright red Yú l W Yao handsome 東 Phèng solemn 東 Yúan the graceful look of a flowing robe 趙 赵 Zhào (an ancient feudal state) 鄭 郑 Zhèng solemn Zoheng solemn 鄭 郑 Zhèng solemn Zou W Yao handsome Phèng solemn 東 大 Ru Yúan the graceful look of a flowing robe 鄭 邓 Zhèng solemn 東 大 Ru Yuan the graceful look of a flowing robe 鄭 Zhaò (an ancient feudal state) 鄭 Yao handsome 東 Dell Jabe 大 Ru Yuan the graceful look of a flowing robe 夏 Dell Jabe 東 大 Ru Yuan the graceful look of a flowing robe 夏 Dell Jabe<	注	汪						
萧 Xiāo oxtail southern wood; respectful 徐 徐 Xú slowly; gently; calmly 萨 萨 Xūe (a kind of marsh grass) 姚 姚 Yáo handsome 揚 扬 Yáng to raise 葉 叶 Yè leaf 宋 宋 Yú I 曾 Zēng (a 4th generation relationship) 超 Zhōu Zhou Dynasty 第 Zōu 朱 大 Zhū bright red Not so common family names 班 班 Bān a grade 鲍 Bào abalone 平 Bì to complete 成 成 Chéng completed; accomplished 仇 仇 Chóu enemy	一	丰					•	_
萧 Xiāo oxtail southern wood; respectful 徐 徐 Xú slowly; gently; calmly 萨 萨 Xūe (a kind of marsh grass) 姚 姚 Yáo handsome 揚 扬 Yáng to raise 葉 叶 Yè leaf 宋 宋 Yú I 曾 Zēng (a 4th generation relationship) 超 Zhōu Zhou Dynasty 第 Zōu 朱 大 Zhū bright red Not so common family names 班 班 Bān a grade 鲍 Bào abalone 平 Bì to complete 成 成 Chéng completed; accomplished 仇 仇 Chóu enemy	畳	부		tarmed leather				· · ·
萧 Xiāo oxtail southern wood; respectful 徐 徐 Xú slowly; gently; calmly 萨 萨 Xūe (a kind of marsh grass) 姚 姚 Yáo handsome 揚 扬 Yáng to raise 葉 叶 Yè leaf 宋 宋 Yú I 曾 Zēng (a 4th generation relationship) 超 Zhōu Zhou Dynasty 第 Zōu 朱 大 Zhū bright red Not so common family names 班 班 Bān a grade 鲍 Bào abalone 平 Bì to complete 成 成 Chéng completed; accomplished 仇 仇 Chóu enemy		百		our many				
徐 徐 Xú slowly; gently; calmly 薛 辞 Xūe (a kind of marsh grass)	英	支 事						
辞								bear
機								la constance of
姚								
## P Yiň to govern 表 文 Yúan the graceful look of a flowing robe 表 文 Yúan the graceful look of a flowing robe 張 张 Zhāng to spread		,						
表 表 Yúan the graceful look of a flowing robe 張 张 Zhāng to spread 周 周 Zhōu Zhou Dynasty 鍾 钟锺 Zhōng bell 								leaf
展 张 Zhāng to spread	光 호			· ·				
周 月 Zhōu Zhou Dynasty 鍾 钟锺 Zhōng bell 鄒 邹 Zōu *** *** *** *** *** *** *** *** *** *	表							
鍾 钟锺 Zhōng bell 鄒 邹 Zōu *** *** ** ** Zhū bright red** *** ** Not so common family names** **				·				` '
Reference							_	solemn
田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田田					鄧	ᆁ	Zōu	
班 班 Bān a grade 鮑 鲍 Bào abalone 早 毕 Bì to complete 成 成 Chéng completed; accomplished 仇 仇 Chóu enemy 狄 狄 Dí 鐸 日 Dúo a large bell 房 房 Fáng house 費 費 Fèi expediture	木	木	Zhū					
題 飽 Bào abalone	TIT	T T		Not so common fa			ies	
畢 毕 Bì to complete トト Bǔ to divine 成 成 Chéng completed; accomplished 遅 迟 Chí late 仇 仇 Chóu enemy 楚 楚 Chǔ 狄 狄 Dí 督 B Dū to oversee 鐸 铎 Dúo a large bell 樊 揆 Fán bird cage 房 房 Fáng house 斐 斐 Fěi elegant; beautiful 費 费 Fèi expediture 馮 冯 Féng								·
成成 Chéng completed; accomplished								
仇 仇 Chóu enemy	畢							
狄狄Dí督督Dū to oversee鐸铎 Dúo a large bell樊 樊 Fán bird cage房房Fáng house斐 斐 Fěi elegant; beautiful費费Fèi expediture馮 冯 Féng				completed; accomplished				late
鐸YY <th< td=""><th></th><td></td><td></td><td>enemy</td><td></td><td></td><td></td><td></td></th<>				enemy				
房								
費 费 Fèi expediture	鐸		Dúo	a large bell			Fán	bird cage
	房		Fáng	house			Fěi	elegant; beautiful
甘 甘 Gān delicious 戈 戈 Gē spear; lance			Fèi	expediture			Féng	
	甘	甘	Gān	delicious	戈	戈	Gē	spear; lance



B.1. FAMILY NAMES page 37 Daniel J. Greenhoe

	古				+		
葛士	葛士	Gě		辜	辜	Gū	sin; crime
古	古	Gŭ	ancient	官	官	Gūan	government official
管	管 **	Gŭan	tube; pipe	桂	桂	Gùi	
花	花	Hūa	flower	季	季	Jì	season
簡	筒	Jiǎn	brief	焦	焦	Jiāo	scorched
景	景	Jiňg	scenery	柯	柯	Kē	tall evergreen tree
寇	寇	Kòu	bandits	匡	匡	Kuāng	to correct
黎	黎	Lí	numerous	東	栗	Lì	chestnut tree
連	连	Lián	to connect	柳	柳	Liŭ	willow tree
魯	鲁	Lŭ	dull	陸	陆	Lù	land
路	路	Lù	road	麥	麦	Mài	wheat; barley; oats
眉	眉	Méi	eyebrows	梅	梅	Méi	prunes
門	门	Mén	door	苗	苗	Miáo	a sprout
莫	莫	Mò	not	橡	穆	Mù	peaceful; serene
納	纳	Nà	to receive	南	南	Nán	south
年	年	Nián	year	│聶	聂	Niè	
製	裴 溥	Péi	the look of a flowing gown	皮	皮	Pí	skin; fur
∥溥	溥	Pŭ	great; wide; vast	齊	齐	Qí	equal
泉	泉	Qúan	spring; fountain	阮	阮	Rŭan	(ancient musical instrument)
単	单	Shàn		水	水	Shŭi	water
││肅	肃	Sù	respectful; majestic	臺	台	Tái	a lookout; an observatory
太	太	Tài	very big	湯	汤	Tāng	hot water; soup
陶	陶	Táo	pottery	童	童	Tóng	child
宛	宛	Wăn	crooked	尾	尾	Wěi	tail
魏	魏	Wèi	lofty; stately; mafnificent	温	温	Wēn	warm
聞	闻	Wén	to hear	翁	翁	Wēng	father
巫	巫	Wū	witch; wizard	烏	乌	Wū	crow; raven
一向	向	Xiàng	to face	須	须	Χū	must
宣	宣	Xūan	to announce	玄	玄	Xúan	far and obscure
晏	晏	Yàn	clear	楊	杨	Yáng	poplar
伊	伊	Υī	he; she	宜	宜	Υí	right; fitting
易	易	Yì	to exchange	英	英	Ying	a flower
光	尤	Yóu	to feel bitter	猶	犹	Yóu	similar to
三	玉	Yù	precious stone	加	郁	Yù	colorfully ornamented
<u> </u>	喻	Yù	parable; to explain	越	越	Yùe	to go beyond
樂	乐	Yùe	music	宰	字	Zăi	to preside
曾	曾	Zēng	3 generation difference	詹	· 詹	Zhān	verbosity
湛	湛	Zhàn	deep; profound	戦	战	Zhàn	war
港	章	Zhāng	a piece of writing	芝	芝	Zhī	
- 智	智	Zhì	capable; wisdom	摯	挚	Zhì	sincere
莊	庄	Zhūang	solemn	宗	宗	Zōng	ancestor
祖	祖	Zŭ	grandfather; grandmother		· 1 \	_59	
1.4.4	1.44		Rare family	name	es		
邸	邸	Dĭ	residence of a high official	頽	颓	Túi	to crumble
洗	洗	Xiǎn		一荀	荀	Xún	
	-,, 0	****		٠-٠		****	I









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義	义	Yì	justice	於	于	Yú	in
禹	禹	Υŭ		查	查	Zhā	
湖	湖	Hú	lake	據	据	Jù	proof
可	可	Kě	to be able to	臨	临	Liń	to look down from above
茅	茅	Máo	couch grass	猛	猛	Měng	bold; fierce

B.2 Characters for male names

			Common charac			ale nar	nes
澳	澳	aò	deep waters	奥	奥	aò	mysterious; profound
保	保	bǎo	to guard	備	备	bèi	completeness
炳	炳	biňg	bright; luminous	伯	伯	bó	a count (nobility)
博	博	bó	extensive; abundant	財	财	cái	wealth
燦	灿	càn	bright and brilliant	闡	阐	chăn	to make clear
昌	昌	chāng	proper; good	暢	畅	chàng	smoothly; fluently
超	超	chāo	to exceed	晨	晨	chén	morning; daybreak
誠	诚	chéng	sincere; honest	矗	矗	chù	steep; lofty
]]]	Ш	chūan	river	達	达	dá	intelligent; understanding
道	道	dào	road; path	德	德	dé	virtue
登	登	dēng	to ascend; to climb	燈	灯	dēng	lamp; lantern
迪	迪	dí	to progress	頂	顶	diňg	the top
ĺ∰	斗	dòu	to struggle	渡	渡	dù	to cross
敦	敦	dūn	honest; to deepen	奮	奋	fèn	to rise in force
豐	丰	fēng	abundant	奉	奉	fèng	to receive with respect
福	福	fú	good fortune; a blessing	扶	扶	fú	to support
富	富	fù	wealthy	功	功	gōng	merit; achievement
谷圭貴	谷	gŭ	valley	固	固	gù	stable; sturdy
圭	圭	gūi	(a jade tablet)	傀	傀	gūi	great; wonderful
	贵	gùi	high-placed	過	过	gùo	to pass
捍	捍	hàn	to defend	皓	皓	hào	white and bright
篆	篆	háo	outstandingly intelligent	和	和	hé	harmony
宏	宏	hóng	magnificent	泓	泓	hóng	deep
鴻	鸿	hóng	swan	煥	焕	hùan	shining
虎	虎	hŭ	brave	暉	晖	hūi	radiant
火	火	hǔo	fire	繼	继	jì	to carry on
堅	坚	jiān	strong and durable	佼	佼	jiǎo	charming
結	结	jiē	tough	杰	杰	jié	outstanding
捷	捷	jié	swift	傑	杰	jié	remarkable
介	介	jiè	upright	勁	劲	ji'n	vigor
進	进	jìn	to advance	晉	晋	jìn	to advance
井	井	jiňg	a well	靖	靖	ji'ng	peaceful
炯	炯	jiŏng	brightness	凱	凯	kǎi	peace
康	康	kāng	healthy	慷	慷	kāng	unselfish





克	克	kè	to overcome	客	客	kè	quoat	Т
昆	昆	kūn	to overcome	琅	琅		guest	
 瑯	瑯		elder brother	禮	礼	láng Iĭ	clean and white	
 理	理	láng ''	pure and white	力	力		courtesy	
乜良	良	<u> </u>	reason; logic	烈	烈烈	<u> </u>	strength	
嶙	嶙	liáng	fine; desirable	点	亮	liè	fiery	
		liń	rugged			liàng	bright	
涼	谅	liàng	honest	霖	霖	liń 	continuous heavy rain	
 磷	磷	liń	water flowing between stones	令四	令四	ling	excellent	
流	流	liú	to flow; mobile	隆	隆 ##	lóng	prosperous; abundant	
民時	民語	miń	the people	牧	牧	mù	to shephard	
睦	睦	mù	friendly; to befriend	邁	迈	mài	to surpass	
滿	满	măn	full; plentiful	茫	茫	máng	vast; boundless	
茂	茂	mào	exuberant	萌	萌	méng	to bud; to shoot forth	
 渺	渺	miǎo	endlessly vast	淼	沝	miǎo	extensive;vast	
明	明	miíng	bright; brilliant	慕	慕	mù	to long for; to adore	
 耐	耐	nài	to endure	沛	沛	pèi	abundance	
怦	怦	pēng	eager	祈	祈	qí	to pray	
杞	杞	qĭ	a species of willow	謙	谦	qiān	humble	
勤	勤	qiń	diligent; industrious	清	清	qiñg	pure; virtuous	
遒	遒	qiú	strong; vigorous	饒	饶	ráo	abundant	
仁	仁	rén	benevolence; kindness	榮	荣	róng	glory; honor	
融	融	róng	glowing	睿	睿	rùi	wise and clever	
 塞	塞	sài	to compete	森	森	sēn	luxuriant vegetation	
Щ	Щ	shān	mountain	善	善	shàn	good; virtuous	
贍	赡	shàn	to provide	盛	盛	shèng	abundant; rich	
慎	慎	shèn	cautious; prudent	士	士	shì	scholar	
守	守	shŏu	to protect	舒	舒	Shū	to unfold	
碩	硕	shùo	great;large	嵩	嵩	sōng	mountain song	
添	添	tiān	to increase	遂	遂	sùi	to satisfy; to fulfill	
潭	潭	tán	deep water; profound	旺	旺	wàng	prosperous	
威	威	wēi	dignity; authority; awe	惟	惟	wéi	to think; to meditate	
維	维	wéi	to hold fast	穩	稳	wěn	stable; steady	
梧	梧	wú	a support	悟	悟	wù	to become aware of; to realize	
晤	晤	wù	to meet; enlightened; wise	悉	悉	χĪ	to know	
晳	皙	χī	fair, white	溪	溪	χī	mountain stream	
俠	侠	xiá	chivalry	峽	峡	xiá	a gorge	
黠	黠	xiá	smart; clever	閒	閒	xián	quiet; calm	
賢	贤	xián	capable; versatile	現	现	xiàn	to emerge	
祥	祥	xiáng	auspicious	協	协	xié	to agree; to help	
·· 新	·· 新	xiñ	new; fresh	興	<u> </u>	xiñg	to rise; to thrive	
 興	\\\ \\\	xing	cheerful; happy	旭	旭	xù	radiance of daybreak	
 勳	勳	xūn	merits; honors	涯	涯	yá	water's edge	
巖	巖	yán	a rock	嚴	严	yán	beautiful	
儼	俨	yǎn	majestic; respectable	泱	<i>,</i> 泱	yāng	great; profound	
 杳	*	yǎo	deep and expansive	屹	屹	yang yì	to rise high	
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一奕	奕	yì	great; grand; abundant	益	益	yì	to increase
│軼	轶	yì	to excel	肄	肄	yì	to study; to toil
毅	毅	yì	firm; endurance; fortitude	藝	艺	yì	art; skill
翼	翼	yì	wings;to help	殷	殷	yiñ	flourishing
蔭	荫	yìn	shade	廕	廕	yìn	to shelter
熒	荧	yińg	candle light	贏	嬴	yińg	to win
雍	雍	yōng	harmony; peaceful	勇	勇	yŏng	courageous; fearless
優	优	yōu	excellent; abundant	域	域	yù	frontier
裕	裕	yù	abundance; generous	譽	誉	yù	fame;honor
豫	豫	yù	comfort; to travel	援	援	yúan	to lead; to rescue
嶽	嶽	yùe	a high mountain	贊	赞	zàn	to assist; to support
増	增	zēng	to increase	嶄	崭	zhǎn	towering
│璋	璋	zhāng	an ancient jade ornament	朝	朝	zhāo	morning
哲	哲	zhé	a thinker; wise	崢	峥	zhēng	lofty; outstanding
│拯	拯	zhěng	to save; to deliver	正	正	zhèng	proper
陟	陟	zhì	to ascend	忠	忠	zhōng	faithful; devoted
助	助	zhù	to help				·
			Not commonly used c	narac	cters	for ma	le names
瀑	瀑	bào	sudden pouring rain	懂	懂	dŏng	to understand
│敢	敢	găn	to dare; bold	趕	赶	găn	to pursue
好	好	hǎo	good	駕	驾	jià	to excel
肩	肩	jiān	to sustain	澗	涧	jiàn	mountain stream
匠	厅	jiàng	craftsman	禁	禁	jiñ	to endure
勁	劲	jing	powerful	剋	克	kè	to overcome
懇	恳	kěn	sincere	款	款	kŭan	sincerity
闊	阔	kùo	wealthy	擴	扩	kùo	to expand
倆	俩	liǎng	craft; ability	瀏	浏	liú	the appearance of a clear stream

B.3 Characters for female names

	Common characters for female names								
愛	爱	aì	to love	芭	芭	bā	a fragrant plant		
一蓓	蓓	bèi	flower bud	嬋	婵	chán	graceful; ladylike		
春慈	春	chūn	spring	淳	淳	chún	pure; clean; simple		
	慈	CÍ	kind; loving	黛	黛	dài	a beauty		
旦	旦	dàn	daybreak	朵	朵	dúo	flower		
婀	婀	ē	graceful; elegant	娥	娥	é	good; beautiful		
芳	芳	fāng	fragrant; virtuous	菲	菲	fēi	fragrant		
芬	芬	fēn	fragrance; perfume	鳳	凤	fèng	male phoenix		
馥蕙	馥	fù	fragrant fragrance	瑰	瑰	gūi	fabulous; a kind of jasper		
蕙	蕙	hùi	fragrant orchid	薈	荟	hùi	luxuriant growth		
慧	慧	hùi	wise	姬	姬	jī	beautiful lady		
佳	佳	jiā	beautiful	嬌	娇	jiāo	delicate		
潔	洁	jié	pure	菁	<u></u>	jiñg	the flower of the leek		
			- I				2019 January 17 (Merusonay) 02:55 and LITC		

主爫	圭名		. 444	「泣	河		
靜	静	jing 	tranquility	 嵐	淨岚	jiùg	pure
娟	娟	jūan	graceful			lán	mountain vapor
蘭	兰	lán 	orchid	莉葉	莉	lì 	white jasmine
麗	丽	lì	beautiful	蓮	莲	lián	lotus
戀	恋	liàn	to be in love	玲	玲	lińg	tinklings of jade
綾	绫	lińg	very fine silk cloth	曼	曼	màn	delicately beautiful;graceful
玫	玫	méi	rose	美	美	měi	beautiful
蜜	蜜	mì	honey	妙	妙	miào	wonderful; intriguing; ingenious
 	念	niàn	to miss; to long for	嬝	嬝	niǎo	delicate; graceful
寧	宁	nińg	peace; serenity	綺	绮	qĭ	beautiful; resplendent
	情	qińg	feelings; love	晴	晴	qińg	fine; fair
瓊	琼	qióng	fine jade	柔	柔	róu	soft and tender
珊	珊	shān	tinkling of jade	韶	韶	sháo	a form of music; beautiful, harmonious
絲	<u>44</u>	SĪ	silk	素	素	sù	pure white silk
曇	昙	tán	clouds	甜	甜	tián	sweet; agreeable
恬	恬	tián	quiet; undisturbed	窕	窕	tiǎo	slender; charming
婉	婉	wăn	amiable; pleasant	舞	舞	wŭ	to dance
絃	絃	xián	the string of a musical instrument	嫻	娴	xián	refined; gracious
香	香	xiāng	sweet-smelling	心	心	xiñ	heart
欣	欣	xiñ	glad	欣	欣	xiñ	glad;joyful
曉	晓	xiǎo	daybreak; dawn	秀	秀	xiù	brilliant; beautiful; graceful
絢	绚	xùan	bright and brilliant	雪	雪	xŭe	snow
雅	雅	yă	refined;polished	媽	嫣	yān	captivating; fascinating
雁	雁	yàn	wild goose	瑤	瑶	yáo	precious jade
樂	乐	yào	to love	怡	怡	yí	harmony; jubilation
旖	旖	уĭ	romantic; tender	音	音	yiñ	sound; musical note
瑛	瑛	ying	glitter of jade	櫻	樱	ying	cherry;cherry blossoms
詠	咏	yŏng	to sing; to hum	瑜	瑜	yú	perfect gem
愉	愉	yú	happy; joyful	月	月	yùe	the moon
韻	韵	yùn	rhymes	貞	贞	zhēn	chasity; pure
珍	珍	zhēn	precious; rare	珠	珠	zhū	pearl
			Not often used char	acter	s for	femal	e names
緋	绯	fēi	scarlet;crimson	卲	卲	shào	to encourage; graceful
籥	籥	yùe	a kind of flute				

B.4 Characters for either male or female names

	Characters for either male or female names									
藹	蔼	aĭ	exuberant; amiable	安	安	añ	peaceful			
本	本	běn	root; source	オ	才	cái	gifted person			
恩	恩	eñ	grace; kindness	梵	梵	fàn	clean and pure			
飛	\neg	fēi	to fly	霏	霏	fēi	falling of snow and rain			
翡	翡	fěi	kingfisher; emerald	丰	丰	fēng	good-looking			
風	风	fēng	wind; breeze	↓佳_	_佳	jiā	excellent			







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				<i>\</i> . ∆ . ∆ . ∆ .				_
錦	锦	jĭn	glorious	樂	乐	lè	happy	١
夢	梦	mèng	dream	瑞	瑞	rùi	lucky	
詩	诗	shī	poetry	思	思	sī	to think	
琬	琬	wăn	(a kind of jade tablet)	望	望	wàng	to watch; to hope	
文	文	wén	a composition; culture	蓊	蓊	wěng	flourishing; lush	
喜	喜	хĭ	a joyful thing	禧	禧	ΧĬ	happiness; blessings	
夏	夏	xià	summer	相	相	xiàng	to examine; to help	
行	行	xińg	to walk	幸	幸	xing	well-being	
續	续	xù	to continue; to renew	誼	谊	yì	friendship	
穎	颖	yiňg	outstanding; remarkable	愉	愉	yú	happy; contented	
雨	雨	уŭ	rain	照	照	zhào	to shine upon	
甄	甄	zhēn	potter's wheel	佐	佐	zŭo	to assist	
妍	妍	yán	beautiful	耀	耀	yào	to shine; to dazzle	
盈	盈	yińg	to fill	羽	羽	yŭ	feather; wing	
	知	zhī	knowledge					

B.5 Famous names

It might be useful to see some examples of names of real people (past and present). 2

Table B.5: Famous people

name		description
馬 國	z <mark>hāng</mark> 璋 璋 de tablet	male, 1858–1919, army general and politician
Lí Yúan hón 黎 元 洪 黎 元 洪 many first floo		male, 1864–1928, general and former president of Taiwan
段 段 祖 段 祺	rùi 瑞 瑞 picious	male, 1864–1936, army commander and provisional chief executive
Wèi dào 魏 道 魏 道 magnificent road	mińg 明 明 bright	male, 1900–1978, governor of Taiwan province from 1947–1949
Yúan shì 袁 世 袁 世 generation	k <mark>ǎ</mark> i 凱 凯 triumphant strains	male, 1859–1916, military official and politician

continued on the next page ...

²Reference: http://en.wikipedia.org/wiki/List_of_Chinese_people







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	continued from the previous page
name	description
Yáng gùi fēi 楊 貴 妃 杨 贵 妃 poplar valued concubine	female, 719–756, highest ranking imperial concubine
Wáng zhāo jūn 王 昭 君 王 昭 君 king clear monarch	female, ~40B.C., One of the "Four Beauties" of ancient China
Jiǎng tińg xí 蔣 廷 錫 蒋 廷 锡 monarch's court tin	male, 1669–1732 painter and encyclopedia editor
liáng lắng qiū 梁朗秋 梁朗秋	male, ~ 1900; poet and calligrapher
Qí bái shí 齊 白 石 齐 白 石 orderly white stone	male, 1864–1957; painter
Wáng xī zhī 王 羲 之 王 羲 之	male, 303-361; the "Sage of Calligraphy"
Zhào mèng fǔ 趙 孟 頫 赵 孟 頫 first month of a season to bow the head	male, 1254–1322; prince, scholar, painter, and calligrapher
Zhèng xiào xū 鄭 孝 胥 郑 孝 胥 solemn dutiful together	male, 1860–1938; statesman, diplomat, and calligrapher
Chéng màn qiñg 鄭 曼 青 郑 曼 青 graceful blue	male, 1902–1975; the "Master of Five Excellences": Chinese medicine, Tai Chi Chuan, calligraphy, painting, and poetry
Xiè tińg fēng 謝 霆 鋒 谢 霆 锋 to thank sudden thunder cutting edge of a sword	male, 1980–; singer and actor
Fàn bing bing 范 冰 冰 范 冰 冰 ice ice	female, 1981–; actress
	continued on the next page

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	continued from the previous page
name	description
Bó aň ní 柏 安 妮 柏 安 妮 cypress peaceful maid	female; actress, English name "Ann Bridgewater"
Lǐ Xiǎo lóng 李 小 龍 李 小 龙 plum tree little dragon	male, 1940–1973, martial arts actor, English name, "Bruce Lee"
Chén gǎng shēng 陳 港 生 陈 港 生 to lay out a port to give birth	male, 1954– ; martial arts actor, English name "Jackie Chan"
Zhōu xiñg chí 周星 馳 周星 驰 star to gallop	male, 1962; actor, director, English name "Stephen Chow"
Wú yǔ sēn 吳宇森 吴宇森 roof luxuriant vegetation	male, 1946– ; director, producer, English name "John Woo"
Chén hùi shān 陳 慧 珊 陈 慧 珊 to lay out wisdom tinkling of jade	female, 1970– ; actress, English name "Flora Chan"
Chén hùi liń 陳 慧 琳 陈 慧 琳 to layout wisdom beautiful jade	female, 1972–; singer and actress, English name, "Kelly Chen"
Dèng lì jūn 鄧 麗 君 邓 丽 君 beautiful monarch	female, 1953–1995; singer, English name "Teresa Teng"
Chén jiňg rùn 陳 景 潤 陈 景 润 a view moist	male, 1933–1996; mathematician

Non-Chinese names B.6

Chinese names are often carefully chosen for their meanings. However when translating non-Chinese names into Chinese, characters are chosen that "sound like" the name of the person in that person's mother tongue. Here are some examples of famous non-Chinese people:

name						description
Wéi 韋 韦 soft leath		<u> </u> = <u> </u>	Lái 萊 莱 wild weeds s _l Wright	tè 特 特 pecial		Wilbur Wright, one of the inventors of the modern airplane
Aò 奧 奥 abstruse	wēi 威 威 might	ěr 爾尔 you	莱	•	4	Orville Wright, one of the inventors of the modern airplane

References:

- 聲 葉德明, editor: Far East Pinyin Chinese-English Dictionary: 遠東拼音漢英辭典. Taipei: 遠東圖書公司 (yǔan dōng tú shū gōng ši) The Far East Book Company, Limited, 2000 (URL: http://www.worldcat.org/isbn/957612462X\>, ISBN 978-9576124624
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³ ► (2004)萊特兄弟 Wright Brothers, page 1

⁴ ► (2004)萊特兄弟 Wright Brothers, page 1







APPENDIX C	
	SONGS

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Old McDonald

lăo xiān shēng yŏu kuài dì wàng 王 老 塊 地 先 生 有 王 老 先 地 生 有 块 king old ahead birth have chunk earth mister

Table C.1: Old McDonald

English	Chinese (中文)
Old McDonald had a	wàng lắo xiān shēng yǒu kuài dì
farm.	王 老 先 生 有 塊 地
	王 老 先 生 有 块 地 king old ahead birth have chunk earth
	king old ahead birth have chunk earth mister
Yi ai yi ai oh	yī yā yī yā yōu
	ゆ 好 好 ぬ!
	咿呀咿呀呦!
	(sound) (sound) (sound)
And on that farm he had	tā zài yúan lǐ yǎng xiǎo yā
a duck.	他 在 園 裡 養 小 鴨 他 在 园 里 养 小 鸭
	他在园里养小鸭 he at garden inside raise small duck
	duckling
Yi ai yi ai oh	yī yā yī yā yōu
	咿 呀 咿 呀 呦 !
	咿呀咿呀呦!
Duckling here gua gua	xiǎo yā zhè lǐ gū gū
Buoking horo gua gua	小鴨這裡呱呱
	小鸭这里呱呱
	small duck this inside baby's cry
	duckling here
Duckling there gua gua	xiǎo yā nà lǐ gū gū
	小 鴨 那 裡 呱 呱 小 鸭 那 里 呱 呱
	small duck there inside baby's cry there
everywhere gua gua	dào chù dōu zài gū gū
	到 處 都 在 呱 呱
	到 处 都 在 呱 呱
	reach place all at baby's cry
	everywhere
	continued on the next page





C.1. OLD MCDONALD Daniel J. Greenhoe page 49

	continued from the previous page
Chinese (中文)	
wàng lǎo xiān shēng yŏu kuài dì	
王老先生有塊地	
王老先生有块地	
king old ahead birth have chunk earth	
mister	
yī yā yī yā yōu 咿呀咿呀呦! 咿呀咿呀呦!	
	wàng lǎo xiān shēng yǒu kuài dì 王 老 先 生 有 塊 地 王 老 先 生 有 块 地 king old ahead birth have chunk earth mister yī yā yī yā yōu 咿 呀 咿 呀 呦!









APPENDIX C. SONGS page 50 Daniel J. Greenhoe

Bright Moon

Table C.2: Bright Moon

English	Chinese (中文)
"When did we first have the bright moon?",	mińg yùe jǐ shí yǒu 明 月 幾 時 有? 明 月 几 时 有? bright moon how many time have
holding a wine glass, I asked the blue sky.	bǎ jiǔ wèn qing tiān 把 酒 問 青 天 ° 把 酒 向 青 天 ° grip alcohol ask blue sky blue sky
I wonder, in Heaven's imperial palace,	bù zhī tiān shàng gōng qūe 不知天上宫闕, 不知天上宫阙,
what year it is today.	jiň xì shì hé nián 今 夕 是 何 年 ° 今 夕 是 何 年 ° present sunset is what year today what year
I desire to ride the wind to go back,	wǒ yù chéng fēng gūi qù 我 欲 乘 風 歸 去, 我 欲 乘 风 归 去, I desire ride wind to go back to go go back to
but dread the magnificent jade palace,	yòu kǒng qióng lóu yù yǔ yǔ 又 恐 瓊 樓 玉 宇 , 又 恐 琼 楼 玉 宇 , but dread jade building jade roof splendid hall magnificent jade palace
that such a high place is too cold.	gāo chù bù shēng hán 高 處 不 勝 寒。高 处 不 胜 寒。 high place not competent too

continued on the next page ...



C.2. BRIGHT MOON Daniel J. Greenhoe page 51

English	continued from the previous pag
English Rise and dance until making a pure shadow,	Chinese (中文) qǐ wǔ nòng qiñg yiňg 起 舞 弄 清 影 , tise dance make pure shadow
in what seems like the world of man!	rise and dance pure shadow hé sì zài rén jiān 何似在人間! 何似在人间! what similar at man between world of man
Arching over the bright red pavillion,	zhǔan zhū gé 轉 朱 閣 ' 转 朱 阁 ' revolve bright red pavillion
the moonlight hangs down on the beautiful door,	dī qǐ hù 低 綺 戶, 低 绮 户, hang down beautiful door
shining on the sleepless.	zhào wú mián 照 無 眠 ° 照 无 眠 ° illuminate without sleep
The moon should not have hate,	bù ying yǒu hèn 不 應 有 恨 , 不 应 有 恨 , not should have deserved
so why when it is time to leave, is the moon so full and round?	hé shì cháng xiàng bíe shí yúan 何事長向別時圓?何事长向别时圆? what affairs long hitherto leave time round
People have sorrow, joy, separation, togetherness;	rén yǒu bēi hūan lí hé 人 有 悲 歡 離 合 ' 人 有 悲 欢 离 合 ' people have sadness cheerful apart together
the moon has times of being overcast, clear, full and round, diminished,	yùe yǒu yīn qińg yúan qūe 月 有 陰 晴 圓 缺 ' 月 有 阴 晴 圆 缺 '
since ancient times, these things have been difficult to reconcile.	cǐ shì gǔ nán qúan 此 事 古 難 全 ° 此 事 古 难 全 ° these affairs ancient difficult completely
	continued on the next page .









APPENDIX C. SONGS page 52 Daniel J. Greenhoe

						continued from the previous page
English				Cł	ninese (F	中文)
If only people can remain together for a long time,	dàn yùan 但 願 但 愿 but hope if only	rén 人 人 people		久久	,	
or travel a thousand miles to share life with a lovely lady.	qiān + + thousand long distar	里 里 『	pòng 共 共 hare		j <mark>ūan</mark> 娟 娟 beautiful /ely	0

midi file available at: http://www.hamienet.com/midi15005.html

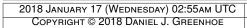


C.3. AMAZING GRACE page 53 Daniel J. Greenhoe

Amazing Grace

Table C.3: Amazing Grace

English	Chinese (中文)
Amazing	qí yì eñ diặn hé děng gān tián
grace, how	奇 異 恩 典 何 等 甘 甜
sweet the	奇 异 恩 典 何 等 甘 甜
sound	unusual different favor law how same as sweet sweet
	unusual grace how sweet
that saved a	wŏ zùi yǐ dé shè miǎn
wretch like	我 罪 已 得 赦 免
me!	我 罪 已 得 赦 免
	I guilt already obtain pardon to exempt
	to pardon
I once was	qián wǒ shī sàng jiñ bèi xún húi
lost, but now am	前我失喪今被尋回
found,	前 我 失 丧 今 被 寻 回
louriu,	before I to lose to lose now have been to search to go back to found
Was blind,	lost found xiā yǎn , jiň dé kàn jiàn .
but now I	Real File File
see.	
	blind eye now to obtain to look at to see
	to see
'Twas grace	rú cǐ eñ diǎn shǐ wǒ jing wèi
that taught	如 此 恩 典 使 我 敬 畏
my heart to	如 此 恩 典 使 我 敬 畏
fear,	as this favor law to make I to reverence to fear
	'twas grace to hold in awe
And grace	shǐ wǒ xin̄ dé an̄ wèi
my fears	使 我 心 得 安 慰
relieved;	使 我 心 得 安 慰
	to make my heart to obtain peace to console
How	chū xià zhī shí jì méng eñ húi zhēn shì hé děng
precious did	│ chū xiǹ zhī shí jì méng en húi zhēn shì hé děng │ 初 信 之 時 既 蒙 恩 惠 真 是 何 等
that grace	
appear, The	first to believe of time as to receive grace favor true that how same as
hour I first	mercy;grace how
believed!	bǎo gùi
	大 央 treasure expensive
	precious
	p







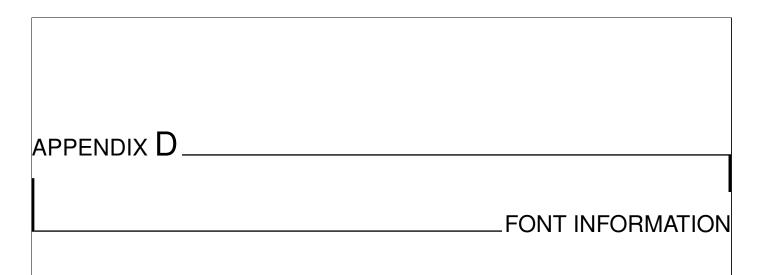




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---	----------------------------

English lyrics available at http://en.wikipedia.org/wiki/Amazing_grace





D.1 Typesetting engine

This text was typeset using X=ATEX, which is part of the TEXfamily of typesetting engines, which is arguably the greatest development since the Gutenberg Press. Graphics were rendered using the pstricks and related packages, and LATEX graphics support.

```
\usepackage { etex }
                                  % deal with counter problem
 \usepackage { xifthen }
                                  % if then else support, includes \cnttest
 \usepackage { calc }
                                  % calculation
 \usepackage { array }
                                  % new tabular and array support, \newcolumntype
 \usepackage { longtable }
                                  % tabular with page breaks
 \usepackage { xcolor }
                                  % color support
 \usepackage { graphicx }
 \usepackage { fancyhdr }
                                  % headers
                                  \% fancy chapter headings: Sonny, Lenny, Glenn, Conny, Rejne, Bjarne
 \usepackage[Glenn]{fncychap}
                                  % url support: \url{} \path{}
 \usepackage { url }
 \usepackage{index}
                                  % multiple index support
 \usepackage { fancybox }
                                  % shadow, oval, and double boxes
 \usepackage[multiple]{footmisc} % footnote support
 \usepackage { fancyvrb }
                                  % fancy verbatim -- supports verbatim in footnotes plus more
 \usepackage { nextpage }
                                  % \cleartooddpage, \cleartoevenpage
 \usepackage { multicol }
                                  % multiple column support
                                  % color in tables
 \usepackage { colortbl }
%\usepackage{xetex-pstricks}
                                  % pstricks help for XeLaTeX and XeTeX
                                  % psmatrix
 \usepackage { pst-node }
 \usepackage[tiling]{pst-fill}
                                  % pst fill package
 \usepackage { pst-plot }
                                  % ps plots
 \usepackage { multido }
                                  % loop support for ps diagrams
 \usepackage { nccrules }
                                  % dashed patterns
 \usepackage { pstricks }
                                  % graphics support
 \usepackage{pstricks-add}
                                  % fixe and addons for pstricks
                                  % gradients
 \usepackage { pst-grad }
 \usepackage { geometry }
 \usepackage { hyperref }
                                  % hyperlinks in text
 \usepackage { prettyref }
                                  % references with prefixes
 \usepackage{listings}
                                  % source code listing support
```

D.2 Latin fonts

The main font for this document is *Heros*—a *sans-serif* font similar to Helvetica. *Heros* is from the $T_{F}X$ -Gyre Project and included in the $T_{F}X$ Live distribution.

```
\setmainfont[
  Extension
                 = \{.otf\},
                = {*-regular},
= {*-bold},
  UprightFont
 BoldFont
              = {*-italic}
  ItalicFont
  BoldItalicFont = {*-bolditalic},
  Ligatures
                = {NoCommon},
  ]{texgyreheros} % sans-serif font
```

The font used in quotation boxes on page vii is adapted from ${\it Zapf Chancery Medium Italic}$, originally from URW++ Design and Development Incorporated. The font used for the text in the title is Adventor (similar to Avant-Garde) from the T=X-Gyre Project. The font used for the version identifier in the footer of individual pages is LIDUID CRYSTAL (Liquid Crystal) from FontLab Studio.

IPA typesetting **D.3**

The IPA information is typeset using the *GnuFree Sans-Serif font family*:

```
http://www.gnu.org/s/freefont/
```

The glyphs were entered using a *TECkit mapping* in an X⊐AT⊨X environment with font feature specification as follows:

\newcommand{\fntipa}{\fntFreeSans\addfontfeatures{Mapping=/dan/r/common/TECkit/ascii-uipa}}

...where ascii-uipa is a TECkit mapping compiled from a TECkit ascii-uipa.map file which is about 350 lines long and looks in part something like this:

```
;tipa | U+0053 <> U+0283
latin_capital_letter_S
                        <> latin_small_letter_esh
latin_capital_letter_Z
                             <> latin_small_letter_ezh
                                                               ;tipa | U+005A <> U+0292
BSL COL latin_small_letter_s <> latin_small_letter_s_with_hook; tipa | \:s
                                                                            <> U+0282
FSL COL latin_small_letter_s > latin_small_letter_s_with_hook;
                                                                            <> U+0282
```

As a result, " $\{ fntipa San \}$ " typesets to "an".

D.4 PinYin typesetting

The PinYin information is typeset using the documents main Latin font (see Section D.2) but with assistance from a *TECkit mapping* in an X=LATEX environment with font feature specification as follows:

```
\defaultfontfeatures {%
                   = {NoCommon},% e.g. "fi" be represented as a single character?
 Ligatures
                    = /dan/r/common/TECkit/punctuation,
 Mapping
 SmallCapsFeatures = {Letters=SmallCaps},
```

..where punctuation is a TECkit mapping compiled from a TECkit punctuation.map file which is about 230 lines long and contains statements like these:

```
;/`a <> U+00E0
FSL grave_accent
                        latin_small_letter_a <> latin_small_letter_a_with_grave
                        latin_small_letter_a <> latin_small_letter_a_with_acute
latin_small_letter_a <> latin_small_letter_a_with_diaeresis
FSL apostrophe
                                                                                                 ;/'a <> U+00E1
FSL colon
                                                                                                 ;/:a <> U+00E4
                        latin_small_letter_a <> latin_small_letter_a_with_circumflex
FSL less_than_sign
                                                                                                 ;/ <a <> U+00E2
FSL HYP
                                                                                                 ;/-a \iff U+0101
                        latin_small_letter_a <> latin_small_letter_a_with_macron
```

As a result, "sh/-an" typesets to "shān".

Traditional Chinese typesetting D.5



Traditional Chinese glyphs appearing in the text are from Google's *Noto* Sans CJK font family: https://www.google.com/get/noto/help/cjk/. The Noto project has both sans-serif (illustrated to the left) and serif (illustrated to the right) fonts available. The serif font is perhaps closer to the traditional brush stroke (as is the Roman serif fonts closer to what was made by Romans using a chisel to carve letters in stones). But it is likely that most people writing Chinese characters by hand will first pick up a pen, not a brush, when learning to write Chinese. And pen strokes are by nature basically sans-serif.



```
\newfontfamily {\fntNotoSansCJK}[
  ExternalLocation,
  Path
                   = {/xfonts/noto/},
  Extension
                   = \{.otf\},
                   = \{^* - Regular\},
  UprightFont
                   = \{*-Bold\}.
  BoldFont
  ItalicFont = {*-DemiLight},
BoldItalicFont = {*-Black},
                   = {NoCommon},% e.g. "fi" be represented as a single character?
  Ligatures
  ]{ NotoSansCJKtc}
```

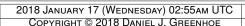
shū 書 书	shū 書 书	shū 書 书	shū ‡ †
book	book	book	book
upright	bold	italic	bold italic

Ruby characters D.6

Ruby characters are Asian characters with pronunciation symbols adjacent to that character. For traditional Chinese characters, the symbols are ZhuYin and are located to the right of the character.

我举看系到公

In this document, the font used to achieve this is











```
\newfontfamily {\fntWangClearZY}[%
      ExternalLocation,
      Path
                       = {/xfonts/zht/},
      Extension
                       = \{.ttf\},
      UprightFont
                       = \{ wp010 - 05 \},
      BoldFont
                       = \{ wp010-05 \},
      ItalicFont
                       = \{ wp010 - 05 \},
11
      BoldItalicFont = \{wp010-05\},
12
      ]\{wp010-05\}
```

D.7 Simplified Chinese typesetting

Just as the Traditional Chinese glyphs, Simplified Chinese glyphs are from Google's Noto Sans CJK (both traditional and simplified are in the same OpenType files). But in this document, the simplified characters were not typed in directly, rather traditional characters were typed, and then mapped to simplified characters using a TECkit mapping in an X=AT=X environment with font feature specification as follows:

\newcommand{\fntzhs}{\fntNotoSansCJK\addfontfeatures{Mapping=../common/TECkit/zht2zhs}}

...where zht2zhs is a TECkit mapping compiled from a TECkit zht2zhs.map file which is about 3000 lines long and in part looks something like this:

```
Variants to TECkit mapping file
; Daniel J. Greenhoe
U+346F
        U+3454 ;
     >
U+3473
        U+3447 ;
                  38
U+3493
        U+20242 ;
        U+523E ;
U+34F8
                  52
     >
U+35F2
        U+20D7E
                  68
        U+360E ;
U+361A
                  72
        U+36AF
U+3704
                  87
U+370F
        U+36E3 ;
                  88
```

X∃ATEX commands have also been defined such as the following:

```
\newcommand{\zhtss}[3]{%
     \begin{ tabular }[ t ]{@{}c@{}}}
        \color{red}\footnotesize#2\\
        \color{black}\large{\fntzht #1}\\
        \color{black}\large{\fntzhs #1}\\
        \color { blue } \ footnotesize #3%
     \end{ tabular }%
     \label{localization} $$ \inf x [xchar]{{\fntzht #1}/{\fntzhs #1} (#2) #3}
     \label{localization} $$ \inf x [xpinyin]{#2 ({\fntzht #1/\fntzhs #1}) #3}
     \label{localization} $$ \inf x [xeng]{#3 {\fntzht #1/\fntzhs #1} (#2)} $
10
```

In the actual body of the document, the information for a character can be input as follows: \zhtss{見}{ji/`an}{to see}

見 见 to see

jiàn

which writes index information to three different index files (a character index file, a PinYin index file, and an English word index file) and typesets glyphs as appearing to the right:

Note that it is arguably safer to map from traditional to simplified rather than the converse because the traditional to simplified mapping tends to be *many-to-one*. An example is the set of traditional characters $\{\mp, \hat{\mathbf{p}}, \hat{\mathbf{v}}\}$, which all map to the simplified character \mp .

U+4E7E	U+5E72	U+5E79
gān	gān	gàn
乾.	干	幹
	主	
dry	to offend	tree trunk
ui y	lo onona	li ee ii ui ik
U+5E72	U+5E72	U+5E72

However, this is not always the case.

Sometimes the traditional to simplified mapping is *one-to-many*.²

traditional		simplified	PinYin	meaning	Unicode
徵	\leftarrow	征	zhēng	to invade	U+5FB5 ← U+5F81
徴	\leftarrow	徴	zhēng	to summon	U+5FB5 ← U+5FB5

D.8 Generating the zht2zhs TECkit map file

As indicated previously, this document supports both traditional and simplified characters where the simplified is in most all cases mapped, when necessary, from the traditional using the TECkit map "zht2zhs.map". A mapping is "necessary" when there is "variation" between the two for a given character.

The traditional-simplified variants are identified in a document from www.unicode.org called "Unihan_Variants.txt". Version 10.0.0, for example, of this file can be found in "Unihan.zip" at https://www.unicode.org/Public/10.0.0/ucd/.

For this document, "zht2zhs.map" was generated from "Unihan_Variants.txt" using a simple command line utility compiled from the C source file called "var2map.c" resulting in a program which can be used like this:

var2map.exe Unihan_Variants_10-0-0.txt zht2zhs_10-0-0.map To download the C source, go to https://github.com/dgreenhoe/unihan.

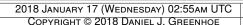
D.9 Default bullet

The ship appearing throughout this text is loosely based on the *Golden Hind*, a sixteenth century English galleon famous for circumnavigating the globe. The ship image as appears in this document was rendered using PStricks packages using code which includes something like that listed below:



2 http://hanzidb.org/character-list/multiple-simplified-variants

³ Paine (2000): Warships of the World to 1900 page 63 (Golden Hind)

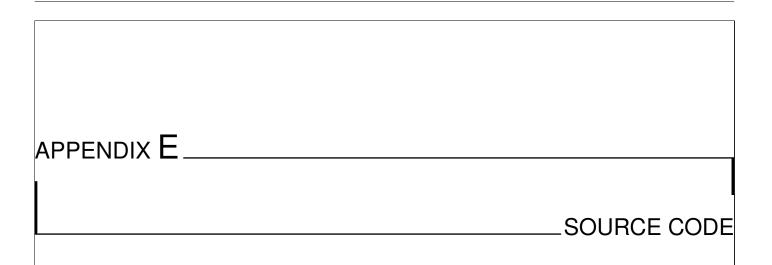








```
{\psset{fillstyle=gradient}%
                      \mbox{\mbox{\mbox{multirput}}(21,31)(38,-6){2}}{\%} forward and middle masts and sails
                                      \pscustom[linewidth=2pt, arrows=-]{\% upper sail
                                                        \pscurve(-18,8)(-20,22)(-8,36)%
                                                       \psline(-8,36)(8,52)%
                                                       \poline{1.5cm} \pol
 10
                                                       \pscurve (14,40)(2,30)(-18,8)%
11
                                                     }%
                                      \pscustom[linewidth=2pt,arrows=-]{% lower sail
                                                     \psline(-16,8)(16,40)%
\pscurve(16,40)(12,28)(16,20)%
13
14
                                                       \psline(16,20)(-16,-8)%
16
                                                       \pscurve(-16,-8)(-20,2)(-16,8)%
 17
                                                     }%
18
                                      \prootember \pro
                                      \psline[linewidth=10pt](-16,8)(16,40)% lower crossbeam
19
                                      \protect\operatorname{\footnotemath{\hspace{-0.07cm}\backslash}} psline[linewidth=10pt](0,0)(0,50)\% vertical mast
```



E.1 TECkit map files

Here are some TECkit mapping files for use with X_LATEX useful for typsetting Mandarin related phonetic symbols. To download these map files, go to https://github.com/dgreenhoe/teckitmaps.

E.1.1 PinYin mapping

The following TECkit map file punctuation.map is useful for typesetting PinYin:

```
; Variants to TECkit mapping file
 ; Input file name: Unihan_Variants.txt
   Output file name: Unihan_Variants.txt
   Daniel J. Greenhoe
   References:
 ; 1. TIPA version 1.3 http://www.ctan.org/pkg/tipa
   2. Unicode standard 6.0, IPA Extensions, http://unicode.org/charts/PDF/U0250.pdf
   3. Handbook of the International Phonetic Association;
     A guide to the use of the International Phonetic Alphabet
12
     Cambridge University Press, 1999, isbn 978-0-521-63751-0 (paperback)
13
 ; 4. symbol names: http://www.unicode.org/Public/UNIDATA/UnicodeData.txt
 ; Header information
 ; EncodingName
                    "punctuation"
                    "Puctuation"
 ; DescriptiveName
                    "punctuation-codes"\\
  LHSName
  RHSName
                    "unicode-punctuation'
  LHSDescription
                     punctuation symbols'
                    "Unicode 6.0 symbols"
  RHSDescription
 ; LHSFlags
  ; RHSFlags
  Version
  Contact
                    "Daniel J. Greenhoe, mailto:dgreenhoe@gmail.com"
  ; Registration Authority
                    "ascii-uipa"
  RegistrationName
```

```
; Macros
  Define BSL reverse_solidus ; U+005C
  Define FSL
             solidus
                               ; U+002F
  Define COL
            colon
                               ; U+003A :
  Define SCO
                               ; U+003B
             semicolon
  Define AST
             asterisk
                               : U+002A
  Define LCB
            left_curly_bracket ; U+007B {
  Define RCB
             right_curly_bracket; U+007D }
  Define HYP
             hyphen minus
                                 U+002D -
  Define EQU
             equals_sign
                                : U+003D =
  Define GTS
             greater_than_sign
                               ; U+003E >
  Define EXM
                               ; U+0021 !
             exclamation mark
                                : U+007C
  Define VLN
             vertical_line
  Define TIL
             tilde
                                : U+007E ~
  Define PER full_stop
                                ; U+002E .
49
  ; pass(Byte) ; Byte==>Byte mapping pass
53
  54
  55
  ; pass(Byte_Unicode); Byte==>Unicode mapping pass
57
  ; pass(Unicode_Byte) ; Unicode==>Byte mapping pass
60
  62
  63
  pass(Unicode); Unicode==>Unicode mapping pass
  65
66
67
68
                                                                              ;`` <> U+201C
   grave_accent grave_accent
                               <> left_double_quotation_mark
69
                                                                              ;" <> U+201D
   quotation mark
                               <> right_double_quotation_mark
70
                                                                              ;---<> U+2014
   hyphen_minus hyphen_minus <> em_dash
   hyphen_minus hyphen_minus
                             <> en_dash
                                                                              ;-- <> U+2013
73
74
  ; diacritics
75
76
77
   FSL latin_capital_letter_O latin_capital_letter_E <> latin_capital_ligature_OE
                                                                                         :/OE <>
            U+0152
   FSL latin_small_letter_o latin_small_letter_e <> latin_small_ligature_oe
78
                                                                                        :/oe <>
            U+0153
80
   FSL grave_accent
                          latin_small_letter_a
                                                <> latin_small_letter_a_with_grave
                                                                                         ;/`a <>
            U+00E0
                                                                                         ;/'a <>
   FSL apostrophe
                          latin_small_letter_a
                                               <> latin_small_letter_a_with_acute
81
            U+00E1
                          latin_small_letter_a
                                                <> latin_small_letter_a_with_diaeresis
82
   FSL colon
                                                                                         :/:a <>
            U+00F4
   FSL less_than_sign
                          latin_small_letter_a
                                                <> latin_small_letter_a_with_circumflex
83
                                                                                         :/ <a <>
            U+00E2
   FSL HYP
84
                          latin_small_letter_a
                                                <> latin_small_letter_a_with_macron
                                                                                         ;/-a <>
            U+0101
   FSL latin_small_letter_v latin_small_letter_a
                                                > latin_small_letter_a_with_caron
85
                                                                                         :/va <>
            U+01CE
   FSL greater_than_sign
                                               <> latin_small_letter_a_with_caron
                          latin_small_letter_a
86
                                                                                         :/>a <>
            U+01CF
   FSL grave_accent
                          latin_capital_letter_A <> latin_capital_letter_A_with_grave
                                                                                         ;/ `A <>
87
            U+00C0
   FSL HYP
                          latin_capital_letter_A <> latin_capital_letter_A_with_macron
                                                                                         ;/-A <>
88
            U+
   FSL apostrophe
                          latin_capital_letter_A <> latin_capital_letter_A_with_acute
                                                                                         :/ 'A <>
89
            U+00C1
   FSL less_than_sign
                          latin_capital_letter_A <> latin_capital_letter_A_with_circumflex
                                                                                         ;/ <A <>
90
            U+00C2
   FSL latin_small_letter_v latin_capital_letter_A > latin_capital_letter_A_with_caron
                                                                                         ;/vA >
            U+01CD
92
   FSL greater_than_sign
                          latin_capital_letter_A <> latin_capital_letter_A_with_caron
                                                                                         ;/>A <>
            U+01CD
   FSL greater_than_sign
                          latin_small_letter_s
                                                <> latin_small_letter_sharp_s
                                                                                         :/>s <>
            U+00DF German lower case sharp s
```



95 96	FSL	greater_than_sign U+01CD German	latin_capital_letter_S upper case sharp S	<>	latin_capital_letter_sharp_S	;/>S <	>
97 98	FSL	apostrophe	latin_small_letter_c	<>	latin_small_letter_c_with_acute	;/'c <	>
99	FSL	U+0107 less_than_sign	latin_small_letter_c	<>	latin_small_letter_c_with_circumflex	;/ <c <<="" td=""><td>></td></c>	>
100	FSL	U+0109 latin_small_letter_v U+010D depreca		>	latin_small_letter_c_with_caron	;/vc	>
101	FSL	greater_than_sign U+010D	latin_small_letter_c	<>	latin_small_letter_c_with_caron	;/>c <	>
102	FSL	semicolon U+00E7	latin_small_letter_c	<>	latin_small_letter_c_with_cedilla	;/;c <	>
103	FSL	apostrophe U+0106	latin_capital_letter_C	<>	latin_capital_letter_C_with_acute	;/'C <	>
104	FSL	less_than_sign U+0108	latin_capital_letter_C	<>	latin_capital_letter_C_with_circumflex	;/ <c <<="" td=""><td>></td></c>	>
105	FSL		latin_capital_letter_C ted	>	latin_capital_letter_C_with_caron	;/vC	>
106	FSL	greater_than_sign U+010C	latin_capital_letter_C	<>	latin_capital_letter_C_with_caron	;/>C <	>
107	FSL	semicolon U+00C7	latin_capital_letter_C	<>	latin_capital_letter_C_with_cedilla	;/;C <	>
109	FSL	latin_small_letter_v U+010F	latin_small_letter_d	<>	latin_small_letter_d_with_caron	;/ vd <	>
110	FSL	semicolon U+1E11	latin_small_letter_d	<>	latin_small_letter_d_with_cedilla	;/;d <	>
111	FSL		latin_capital_letter_D	<>	latin_capital_letter_D_with_caron	;/vD <	>
112	FSL	semicolon U+1E10	latin_capital_letter_D	<>	latin_capital_letter_D_with_cedilla	;/;D <	>
114	FSL	grave_accent U+00E8	latin_small_letter_e	<>	latin_small_letter_e_with_grave	;/`e <	>
115	FSL	apostrophe U+00E9	latin_small_letter_e	<>	latin_small_letter_e_with_acute	;/'e <	>
116	FSL	colon U+00EB	latin_small_letter_e	<>	latin_small_letter_e_with_diaeresis	;/:e <	>
117	FSL	less_than_sign U+00EA	latin_small_letter_e	<>	latin_small_letter_e_with_circumflex	;/ <e <<="" td=""><td>></td></e>	>
118	FSL	latin_small_letter_v U+011B	latin_small_letter_e	>	latin_small_letter_e_with_caron	;/ve <	>
119	FSL	greater_than_sign U+011B	latin_small_letter_e	<>	latin_small_letter_e_with_caron	;/>e <	>
120	FSL	semicolon U+0229	latin_small_letter_e	<>	latin_small_letter_e_with_cedilla	;/;e <	>
121	FSL	HYP U+0113	latin_small_letter_e	<>	latin_small_letter_e_with_macron	;/-e <	>
122	FSL	HYP U+	latin_capital_letter_E	<>	latin_capital_letter_E_with_macron	;/-E <	>
123	FSL	grave_accent U+00C8	latin_capital_letter_E	<>	latin_capital_letter_E_with_grave	;/`E <	>
124		apostrophe U+00C9	latin_capital_letter_E	<>	latin_capital_letter_E_with_acute	;/'E <	>
125		less_than_sign U+00CA	•		latin_capital_letter_E_with_circumflex	;/ <e <<="" td=""><td>></td></e>	>
126		U+011A	•		latin_capital_letter_E_with_caron	;/vE <	
127	FSL	semicolon U+0228	latin_capital_letter_E	<>	latin_capital_letter_E_with_cedilla	;/;E <	>
128 129	FSL	less_than_sign U+011D	latin_small_letter_g	<>	latin_small_letter_g_with_circumflex	;/ <g <<="" td=""><td>;></td></g>	;>
130	FSL	semicolon U+0123	latin_small_letter_g	<>	latin_small_letter_g_with_cedilla	;/;g <	>
131	FSL		latin_small_letter_g	<>	latin_small_letter_g_with_macron	;/-g <	>
132	FSL	less_than_sign U+011C	latin_capital_letter_G	<>	latin_capital_letter_G_with_circumflex	;/ <g <<="" td=""><td>></td></g>	>
133	FSL	semicolon U+0122	latin_capital_letter_G	<>	latin_capital_letter_G_with_cedilla	;/;G <	>
134 135	FSL	less_than_sign U+0125	latin_small_letter_h	<>	latin_small_letter_h_with_circumflex	;/ < h <	>
136	FSL	semicolon	latin_small_letter_h	<>	latin_small_letter_h_with_cedilla	;/;h <	>

137	FSL	U+1E28 less_than_sign	latin_capital_letter_H	<pre><> latin_capital_letter_H_with_circumflex</pre>	;/ <h <=""></h>
138	FSL	U+0124 semicolon	·	<pre></pre>	;/;H <>
139	F01	U+1E29	latin and later :	and the transfer of the transf	. (1)
140		apostrophe U+00CD	latin_small_letter_i	<pre><> latin_small_letter_i_with_acute</pre>	;/'i <>
141	FSL	grave_accent U+00EC	latin_small_letter_i	<pre><> latin_small_letter_i_with_grave</pre>	;/`i <>
142	FSL	less_than_sign U+00EE	latin_small_letter_i	<pre><> latin_small_letter_i_with_circumflex</pre>	;/ < i <>
143	FSL	greater_than_sign U+01D0	latin_small_letter_i	<pre><> latin_small_letter_i_with_caron</pre>	;/>i <>
144	FSL	HYP U+012A	latin_small_letter_i	<pre><> latin_small_letter_i_with_macron</pre>	;/-i <>
145	FSL	HYP U+	latin_capital_letter_l	<pre><> latin_capital_letter_l_with_macron</pre>	;/-1 <>
146	FSL	grave_accent U+00CC	latin_capital_letter_l	<pre><> latin_capital_letter_l_with_grave</pre>	;/` <>
147	FSL	apostrophe U+00ED	latin_capital_letter_l	<pre><> latin_capital_letter_l_with_acute</pre>	;/'1 <>
148	FSL	less_than_sign U+00CE	latin_capital_letter_l	<pre><> latin_capital_letter_l_with_circumflex</pre>	;/<1 <>
150	FSL	less_than_sign	latin_small_letter_j	<pre><> latin_small_letter_j_with_circumflex</pre>	;/ < j <>
151	FSL	U+0135 less_than_sign U+0134	latin_capital_letter_J	<pre><> latin_capital_letter_J_with_circumflex</pre>	;/ < J <>
152	FOL		latin amall latter b	u lakin amali lakkan li wikh andilla	. / . !
153		semicolon U+0137	latin_small_letter_k	<pre><> latin_small_letter_k_with_cedilla</pre>	;/;k <>
154 155	FSL	semicolon U+0136	latin_capital_letter_K	<pre><> latin_capital_letter_K_with_cedilla</pre>	;/;K <>
156	FSL	latin_small_letter_v U+013E	latin_small_letter_l	<pre><> latin_small_letter_l_with_caron</pre>	;/vl <>
157	FSL	semicolon U+013C	latin_small_letter_l	<pre><> latin_small_letter_l_with_cedilla</pre>	;/; <>
158	FSL	PER U+1E37	latin_small_letter_l	<pre><> latin_small_letter_l_with_dot_below</pre>	;/.1 <>
159	FSL	HYP U+0142	latin_small_letter_L	<pre><> latin_small_letter_L_with_stroke</pre>	;/-1 <>
160	FSL		latin_capital_letter_L	<pre><> latin_capital_letter_L_with_caron</pre>	;/vL <>
161	FSL	semicolon U+013B	latin_capital_letter_L	<pre><> latin_capital_letter_L_with_cedilla</pre>	;/;L <>
162	FSL	HYP U+0141	latin_capital_letter_L	<pre><> latin_capital_letter_L_with_stroke</pre>	;/-L <>
163 164	FSL	grave_accent	latin_small_letter_n	<pre><> latin_small_letter_n_with_grave</pre>	;/`n <>
165	FSL	U+01F9 apostrophe	latin_small_letter_n	<pre><> latin_small_letter_n_with_acute</pre>	;/'n <>
166	FSL	U+00F3 latin_small_letter_v	latin_small_letter_n	<> latin_small_letter_n_with_caron	;/vn <>
167	FSL	U+0148 semicolon	latin_small_letter_n	<> latin_small_letter_n_with_cedilla	;/;n <>
168	FSL	U+0146 PER	latin_small_letter_n	<pre><> latin_small_letter_n_with_dot_below</pre>	;/.n <>
169	;FSL		latin_small_letter_n	<> latin_small_letter_n_with_macron	;/-n <>
170	FSL	U+0101 grave_accent	latin_capital_letter_N	<pre><> latin_capital_letter_N_with_grave</pre>	;/`N <>
171	FSL		latin_capital_letter_N	<pre><> latin_capital_letter_N_with_caron</pre>	;/vN <>
172	FSL	U+0147 semicolon U+0145	latin_capital_letter_N	<pre><> latin_capital_letter_N_with_cedilla</pre>	;/;N <>
173 174	FSL	apostrophe U+00F2	latin_small_letter_o	<pre><> latin_small_letter_o_with_acute</pre>	;/'o <>
175	FSL	grave_accent U+00D2	latin_small_letter_o	<pre><> latin_small_letter_o_with_grave</pre>	;/`o <>
176	;FSL		latin_small_letter_o	<pre><> latin_small_letter_o_with_stroke</pre>	;//o <>
177	FSL	EXM U+00D8	latin_small_letter_o	<pre><> latin_small_letter_o_with_stroke</pre>	;/!o <>
					l l



178	FSL	quotation_mark	latin_small_letter_o	<>	latin_small_letter_o_with_double_acute	;/"o	<>
179	FSL	U+0151 colon	latin_small_letter_o	<>	latin_small_letter_o_with_diaeresis	;/:o	<>
180	FSL	U+00F6 less_than_sign	latin_small_letter_o	<>	latin_small_letter_o_with_circumflex	;/<0	<>
181	FSL	U+00F4 quotation_mark	latin_small_letter_o	<>	latin_small_letter_o_with_double_acute	;/"o	<>
182	FSL	U+0050 HYP	latin_small_letter_o	<>	latin_small_letter_o_with_macron	;/-o	<>
183	FSL	U+014D EQU U+014D	latin_small_letter_o	>	latin_small_letter_o_with_macron	;/=o	<>
184	FSL	greater_than_sign U+01D2	latin_small_letter_o	<>	latin_small_letter_o_with_caron	;/>0	<>
185	;FSL		latin_capital_letter_O	<>	latin_capital_letter_O_with_stroke	;//0	<>
186	FSL	EXM U+00F8	latin_capital_letter_O	<>	latin_capital_letter_O_with_stroke	;/!0	<>
187	FSL	grave_accent U+00C8	latin_capital_letter_O	<>	latin_capital_letter_O_with_grave	;/`0	<>
188	FSL	apostrophe U+00D3	latin_capital_letter_O	<>	latin_capital_letter_O_with_acute	;/'0	<>
189	FSL	quotation_mark U+0150	latin_capital_letter_O	<>	latin_capital_letter_O_with_double_acute	;/"O	<>
190	FSL	less_than_sign U+00D4	latin_capital_letter_O	<>	latin_capital_letter_O_with_circumflex	;/<0	<>
191	FSL	quotation_mark U+0151	latin_capital_letter_O	<>	latin_capital_letter_O_with_double_acute	;/"O	<>
192 193	FSL	latin_small_letter_v	latin_small_letter_r	<>	latin_small_letter_r_with_caron	;/ vr	<>
194	FSL	U+0159 semicolon	latin_small_letter_r	<>	latin_small_letter_r_with_cedilla	;/; r	<>
195	FSL		latin_capital_letter_R	<>	latin_capital_letter_R_with_caron	;/vR	<>
196	FSL	U+0158 semicolon U+0156	latin_capital_letter_R	<>	latin_capital_letter_R_with_cedilla	;/;R	<>
197 198	FSL	less_than_sign	latin_small_letter_s	<>	latin_small_letter_s_with_circumflex	;/ <s< td=""><td><></td></s<>	<>
199	FSL	U+015D latin_small_letter_v	latin_small_letter_s	<>	latin_small_letter_s_with_caron	;/vs	<>
200	FSL	U+0161 semicolon	latin_small_letter_s	<>	latin_small_letter_s_with_cedilla	;/;s	<>
201	FSL	U+015F apostrophe	latin_small_letter_s	<>	latin_small_letter_s_with_acute	;/'s	<>
202	FSL	U+015B less_than_sign	latin_capital_letter_S	<>	latin_capital_letter_S_with_circumflex	;/ <s< td=""><td><></td></s<>	<>
203	FSL		latin_capital_letter_S	<>	latin_capital_letter_S_with_caron	;/vS	<>
204	FSL	U+0160 semicolon U+015E	latin_capital_letter_S	<>	latin_capital_letter_S_with_cedilla	;/;S	<>
205 206	FSL	latin_small_letter_v	latin small letter t	<>	latin_small_letter_t_with_caron	;/ vt	<>
207		U+0165 semicolon	latin_small_letter_t			;/; t	
208	FSL	U+0163 latin small letter v				;/vT	
209		U+0164 semicolon	·		_ ·	;/;T	
210		U+0162					
211	FSL	apostrophe U+00FA	latin_small_letter_u	<>	latin_small_letter_u_with_acute	;/'u	<>
212	FSL	grave_accent U+00F9	latin_small_letter_u		latin_small_letter_u_with_grave	;/`u	<>
213	FSL	colon U+00FC	latin_small_letter_u		latin_small_letter_u_with_diaeresis	;/:u	<>
214		quotation_mark U+0171	latin_small_letter_u		latin_small_letter_u_with_double_acute	;/"u	
215	;FSL	quotation_mark U+0070	latin_small_letter_u		latin_small_letter_u_with_double_acute	;/"u	
216		less_than_sign U+00FB	latin_small_letter_u		latin_small_letter_u_with_circumflex	;/ < u	<>
217		asterisk U+0165	latin_small_letter_u		latin_small_letter_u_with_ring_above	;/*u	<>
218	FSL	HYP	latin_small_letter_u	<>	latin_small_letter_u_with_macron	;/ – u	<>

```
U+016B
   FSL EQU
                             latin small letter u
                                                       > latin small letter u with macron
                                                                                                     ;/=u <>
              U+016B
   FSL HYP COL
                             latin small letter u
                                                      <> latin_small_letter_u_with_diaeresis_and_macron
              ;/-:u \iff U+01D6
221
   FSL greater_than_sign
                             latin_small_letter_u
                                                      <> latin_small_letter_u_with_caron
                                                                                                     :/>u <>
              U+01D4
   FSL apostrophe COL latin_small_letter_u
                                                <> latin_small_letter_u_with_diaeresis_and_acute ; /':u <>
              U+01D8
   FSL greater than sign colon
                                  latin_small_letter_u
              latin_small_letter_u_with_diaeresis_and_caron ; />:u <> U+01DA
   FSL grave_accent colon
                             latin_small_letter_u
                                                      <> latin_small_letter_u_with_diaeresis_and_grave ;
              / `:u <> U+01DC
   FSL HYP
                             latin_capital_letter_U <> latin_capital_letter_U_with_macron
                                                                                                     ;/-U <>
              U+
   FSL grave_accent
                             latin_capital_letter_U <> latin_capital_letter_U_with_grave
                                                                                                     :/ `U <>
226
              U+00D9
227
   FSL apostrophe
                             latin capital letter U <> latin capital letter U with acute
                                                                                                     ;/'U <>
              U+00DA
   FSL quotation_mark
                             latin_capital_letter_U <> latin_capital_letter_U_with_double_acute
                                                                                                     ;/"U <>
              U+0170
229
   FSL colon
                             latin_capital_letter_U <> latin_capital_letter_U_with_diaeresis
                                                                                                     :/:U <>
              U+00DC
   FSL less_than_sign
                             latin_capital_letter_U <> latin_capital_letter_U_with_circumflex
                                                                                                     :/ <U <>
230
              U+00DB
   FSL quotation mark
                             latin capital letter U <> latin capital letter U with double acute
                                                                                                     ;/"O <>
231
              U+0171
   FSL greater_than_sign
                             latin_capital_letter_U <> latin_capital_letter_U_with_caron
                                                                                                     ;/>U <>
              U+01D3
                             latin_small_letter_w
                                                      <> latin_small_letter_w_with_grave
   FSL grave_accent
                                                                                                     :/`w <>
              U+1E81
   FSL less_than_sign
                             latin_small_letter_w
                                                      <> latin_small_letter_w_with_circumflex
                                                                                                     ;/ <w <>
              U+0175
                                                                                                     :/ `W <>
236
   FSL grave_accent
                             latin_capital_letter_W <> latin_capital_letter_W_with_grave
              U+1E80
237
   FSL less_than_sign
                             latin_capital_letter_W <> latin_capital_letter_W_with_circumflex
                                                                                                     ;/ <W <>
              U+0174
                             latin_small_letter_y
   FSL apostrophe
                                                      <> latin_small_letter_y_with_acute
                                                                                                     ;/'y <>
239
              U+00FD
   FSL less_than_sign
                             latin_small_letter_y
                                                      <> latin_small_letter_y_with_circumflex
                                                                                                     ;/ < y <>
              U+0177
241
   FSL apostrophe
                             latin_capital_letter_Y <> latin_capital_letter_Y_with_acute
                                                                                                     ;/'Y <>
              U+00DD
   FSL less_than_sign
                                                                                                     ;/<Y <>
                             latin_capital_letter_Y <> latin_capital_letter_Y_with_circumflex
              U+0176
   FSL HYP
                             latin_small_letter_y
                                                      <> latin_small_letter_y_with_macron
                                                                                                     :/-v \iff
              U+0232
   FSL latin_small_letter_v latin_small_letter_z
                                                      <> latin_small_letter_z_with_caron
                                                                                                     :/vz <>
              U+017E
   FSL latin small letter v latin capital letter Z <> latin capital letter Z with caron
                                                                                                     ;/vZ <>
              U+017D
```

E.1.2 IPA mapping

The following TECkit map file ascii-uipa.map is useful for typesetting IPA:

```
Variants to TECkit mapping file
Input file name: Unihan_Variants.txt
Output file name: Unihan_Variants.txt
Daniel J. Greenhoe
This map file may be compiled using the program with parameter
  teckit compile.exe ascii-uipa.map
to produce the file asii-uipa.tec
This file can in turn be used within an XeLaTeX environment.
References:
```

```
1. TIPA version 1.3 http://www.ctan.org/pkg/tipa
   2. Unicode standard 6.0, IPA Extensions, http://unicode.org/charts/PDF/U0250.pdf
15
   3. Handbook of the International Phonetic Association;
      A guide to the use of the International Phonetic Alphabet
17
      Cambridge University Press, 1999, isbn 978-0-521-63751-0 (paperback)
   4. symbol names: http://www.unicode.org/Public/UNIDATA/UnicodeData.txt
  ; 5. pronounciation: http://www.internationalphoneticalphabet.org/ipa-sounds/ipa-chart-with-sounds/
20
 23
 ; Header information
  " tipa 13-tipa -2011"
  ; EncodingName
                    "ASCII to Unicode 6.0 IPA symbols"
  ; DescriptiveName
                    "ascii-symbols"
  LHSName
28
                     "unicode60-ipa'
  RHSName
                    "ASCII symbols"
30
  LHSDescription
                    "Unicode 6.0 IPA symbols"
  RHSDescription
31
  ; LHSFlags
                     ()
  ; RHSFlags
33
                     ()
                     " N "
34
  Version
                     "Daniel J. Greenhoe, mailto:dgreenhoe@gmail.com"
  Contact
  ; Registration Authority
36
                    "ascii-uipa"
  RegistrationName
38
39
 ; Macros
  41
  Define BSL reverse_solidus
  Define FSL solidus
                            : U+002F
  Define COL colon
                            ; U+003A :
  Define SCO semicolon
                            ; U+003B
  Define AST
                            ; U+002A
           asterisk
           left_curly_bracket ; U+007B {
right_curly_bracket ; U+007D }
  Define LCB
  Define RCB
                            ; U+002D -
  Define HYP hyphen_minus
                           ; U+003E >
  Define GTS
           greater_than_sign
                            ; U+0021
  Define EXM
           exclamation_mark
 Define QUM question_mark
                            ; U+003F ?
 Define VLN
           vertical_line
                            ; U+007C |
  Define TIL
           tilde
                            ; U+007E
  Define PER full_stop
                            ; U+002E .
 Define COM comma
                            ; U+002C
  ; pass(Byte) ; Byte==>Byte mapping pass
60
 61
62
  ; pass(Byte_Unicode) ; Byte==>Unicode mapping pass
  65
66
 ; pass (Unicode_Byte) ; Unicode==>Byte mapping pass
68
  pass(Unicode) ; Unicode==>Unicode mapping pass
72
  73
  ; modifiers
74
  quotation_mark
                            <> modifier_letter_vertical_line
                                                                      ;tipa | U+0022 <>
76
           U+02C8 (primary stress)
77
  quotation_mark quotation_mark <> modifier_letter_low_vertical_line
                                                                      ;tipa| ""
                                                                                 <>
           U+02CC (secondary stress)
  grave_accent
                             > modifier_letter_low_vertical_line
                                                                          | U+0060 <>
           U+02CC (secondary stress)
  FSL COL
                             > modifier_letter_triangular_colon
79
                                                                          | /:
           U+02D0 (long vowel)
80
82
  ; plosive sounds
83
84
  ; p
                                                                      ;tipa | U+0070 <>
          U+0070 (voiceless bilabial plosive)
```

_				
85	;b U+0062 (voiced bilabial plosive)	;tipa	U+0062	<>
86	;t U+0074 (voiceless alveolar plosive)	;tipa	U+0074	<>
87	;d U+0064 (voiced alveolar plosive)	;tipa	U+0064	<>
88	·	;tipa	\: t	<>
89		;	/: t	<>
90		;tipa	\:d	<>
91		;	/:d	<>
92	;c	;tipa	U+0063	<>
93	U+0063 (voiceless palatal plosive) ;\textbardotless	;tipa		<>
94	FSL colon latin_small_letter_j > latin_small_letter_dotless_j_with_stroke	;	/: j	<>
95	;k	;tipa	U+006B	<>
96		;tipa	U+0067	<>
97		;tipa	U+0071	<>
98		;tipa	\;G	<>
99	U+0262 (voiced uvular plosive) FSL SCO latin_capital_letter_G > latin_letter_small_capital_G	;	/;G	<>
100		; tipa	U+0050	<>
101	U+0294 (voiceless glottal plosive) ;\textbarglotstop	;tipa		<>
102	U+02A1 (voiced epiglottal plosive)		/:P	<>
103	U+02A1 (voiced epiglottal plosive);			
104 105	;			
106				
107	BSL EXM latin_small_letter_b <> latin_small_letter_b_with_hook U+0253 (voiced bilabial implosive)	; tipa	a \!b	<>
108	FSL EXM latin_small_letter_b > latin_small_letter_b_with_hook U+0253 (voiced bilabial implosive)	;	/!b	<>
109	BSL EXM latin_small_letter_d <> latin_small_letter_d_with_hook	; tipa	a \!d	<>
110	FSL EXM latin_small_letter_d > latin_small_letter_d_with_hook U+0257 (voiced dental or alveolor implosive)	;	/!d	<>
111	BSL EXM latin_small_letter_g <> latin_small_letter_g_with_hook	; tipa	a \!d	<>
112	FSL EXM latin_small_letter_g > latin_small_letter_g_with_hook	;	/!d	<>
113	BSL EXM latin_small_letter_j <> latin_small_letter_dotless_j_with_stroke_and_hoo	k ;tipa	a \!j	<>
114	U+0284 (voiced palatal implosive) FSL EXM latin_small_letter_j > latin_small_letter_dotless_j_with_stroke_and_hoo	k ;	/!j	<>
115	U+0284 (voiced palatal implosive) BSL EXM latin_capital_letter_G <> latin_letter_small_capital_G_with_hook	; tipa	a \!G	<>
116	U+029B (voiced uvular implosive) FSL EXM latin_capital_letter_G > latin_letter_small_capital_G_with_hook	;	/!G	<>
117		; tipa	a	<>
118		;	/;q	<>
119	U+02A0 (voiceless uvular implosive) ;			
120 121	;; affricate sounds			
122 123	; FSL latin_small_letter_t latin_capital_letter_S <> latin_small_letter_tesh_digra	рh	;	/tS
124	- U+02A7 (voiceless postalveolar affricate) e.g. "ch" in English FSL latin_small_letter_c latin_small_letter_h <> latin_small_letter_tesh_digra	ρh	;	/ch
125	> U+02A7 (voiceless postalveolar affricate) e.g. "ch" in English FSL COL latin_small_letter_t latin_capital_letter_S > latin_small_letter_t_with_r		•	
126	latin_small_letter_s_with_hook; /:tS <> U+0288 U+0282 (retroflex Chines FSL latin_small_letter_d latin_small_letter_z <> latin_small_letter_dz_digraph	se "chi	")	/ dz
	<> U+02A3			
127	FSL latin_small_letter_d latin_capital_letter_Z <> latin_small_letter_dz_digraph	_wiru_	curi ;	/ UZ

```
<> U+02A5 (voiced alveolo-palatal affricate)
   FSL latin_small_letter_d latin_small_letter_j
                                                      <> latin_small_letter_dezh_digraph
                                                                                                   ; /dj
28
              <> U+02A4 (voiced
                                    postalveolar affricate)
   FSL latin_small_letter_t latin_small_letter_s
29
                                                      <> latin_small_letter_ts_digraph
                                                                                                   ; /ts
              <> U+02A6 (voiceless dental
                                                 affricate)
   FSL SCO latin_small_letter_d latin_small_letter_z <> latin_small_letter_dz_digraph_with_curl ; /;dz
30
              <> U+02A5 (voiced alveolo-palatal affricate)
    \textteshlig <> latin_small_letter_tesh_digraph
                                                                                                 ;tipa|
             U+02A7 (voiceless postalveolar affricate) e.g. "ch" in English
    \textdyoghlig <> latin_small_letter_dezh_digraph
33
                                                                                                 ;tipa|
             U+02A4 (voiced postalveolar affricate)
                  <> latin_small_letter_ts_digraph
    \texttslia
34
                                                                                                 :tipal
             <> U+02A6 (voiceless dental
                                                 affricate)
                  <> latin_small_letter_dz_digraph_with_curl
  ;\textdctzlig
                                                                                                 ;tipa|
             U+02A5 (voiced alveolo-palatal affricate)
38
    nasal sounds
  ;FSL PER latin_small_letter_d
                                                                                      | /.d
                                   <> latin_small_letter_d_with_dot_below
                                                                                               <> U+1E0D
                                                                                        / . I
   FSL PER latin_small_letter_l
                                   <> latin_small_letter_l_with_dot_below
                                                                                               <> U+1E37
                                                                                 ;tipa| U+006D <> U+006D
43
             (voiced bilabial
                                  nasal)
   latin capital letter M
                                   <> latin small letter m with hook
                                                                                 ;tipa | U+004D <> U+0271
              (voiced labiodental nasal)
45
                                                                                 ;tipa | U+006E <> U+006E
  ; n
             (voiced alveolar
                                  nasal)
   BSL COL latin_small_letter_n
                                   <> latin_small_letter_n_with_retroflex_hook ;tipa| \:n
                                                                                               <> U+0273
46
              (voiced retroflex
   FSL COL latin_small_letter_n
                                   > latin_small_letter_n_with_retroflex_hook ;
                                                                                               <> U+0273
                                                                                     | /:n
              (voiced retroflex
                                   nasal)
   FSL PER latin_small_letter_n
                                   <> latin small letter n with dot below
                                                                                               <> U+1E47
                                                                                      | /.n
49
  ;\textItailn
                                   <> latin_small_letter_n_with_left_hook
                                                                                 ;tipa|
                                                                                               <> U+0272
             (voiced palatal
                                  nasal)
   FSL SCO latin_small_letter_n
50
                                   <> latin_small_letter_n_with_left_hook
                                                                                     | /;n
                                                                                               <> U+0272
              (voiced palatal
                                   nasal)
   latin_capital_letter_N
                                   <> latin_small_letter_eng
                                                                                 ;tipa | U+004E <> U+014B
              (voiced velar
                                   nasal)
   BSL SCO latin_capital_letter_N <> latin_letter_small_capital_N
                                                                                 ;tipa| \;N
                                                                                               <> U+0274
152
              (voiced uvular
                                  nasal)
   FSL \ SCO \ latin\_capital\_letter\_N \ \ > \ latin\_letter\_small\_capital\_N
                                                                                    | /;N
                                                                                               <> U+0274
153
              (voiced uvular
  ; trill sounds
157
   BSL SCO latin_capital_letter_B <> latin_letter_small_capital_B
                                                                                ;tipa| \;B
                                                                                               <> U+0299
58
              (voiced bilabial trill)
   FSL \ SCO \ latin\_capital\_letter\_B \ \ > \ latin\_letter\_small\_capital\_B
                                                                                               <> U+0299
159
                                                                                     | /;B
              (voiced bilabial trill)
                                                                                 ;tipa | U+0072 <> U+0072
60
             (voiced alveolar trill)
   BSL SCO latin_capital_letter_R <> latin_letter_small_capital_R
                                                                                 ;tipa | \;R
                                                                                               <> U+0280
              (voiced uvular trill)
   FSL SCO latin_capital_letter_R > latin_letter_small_capital_R
                                                                                    | /;R
                                                                                               <> U+0280
62
                              trill)
              (voiced uvular
63
  ; tap or flap sounds
65
   latin capital letter R
                                   <> latin_small_letter_r_with_fishhook
                                                                                ;tipa | U+0052 <> U+027E
              (voiced alveolar flap or tap)
   BSL COL latin_small_letter_r
                                   <> latin_small_letter_r_with_tail
                                                                                 ;tipa| \:r
                                                                                               <> U+027D
              (voiced retroflex flap)
   FSL COL latin_small_letter_r
69
                                    > latin_small_letter_r_with_tail
                                                                                    | /:r
                                                                                               <> U+027D
              (voiced retroflex flap)
  ;\textturnlonglegr
                                                                                               <> U+027A
70
                                   <> latin_small_letter_turned_r_with_long_leg; tipa |
             (voiced lateral flap)
   FSL SCO latin_small_letter_r
                                   <> latin_small_letter_turned_r_with_long_leg;
                                                                                               <> U+027A
                                                                                   | /; r
              (voiced lateral flap)
  ; fricative sounds
   latin capital letter F
                                    <> latin small letter phi
                                                                                   ;tipa | U+0046 <> U+0278
```

```
216
  ; lateral fricative
  :\textbeltI
                                    <> latin_small_letter_l_with_belt
                                                                                                <> U+026C
                                                                                    ;tipa|
219
              (voiceless alveolar lateral fricative)
   FSL HYP latin_small_letter_l <> latin_small_letter_l_with_belt
                                                                                    ; | /-I <> U+026C
              (voiceless alveolar lateral fricative)
                                    <> latin_small_letter_lezh
                                                                                                 <> U+026E
   ;\textlyoghlig
                                                                                    ;tipa|
             (voiced
                         alveolar lateral fricative)
   FSL SCO latin_small_letter_l <> latin_small_letter_lezh
                                                                                    : /:1
                                                                                                <> U+026E
              (voiced
                          alveolar lateral fricative)
   ; approximant sounds
   latin_capital_letter_V
                                    <> latin_small_letter_v_with_hook
                                                                                    ;tipa | U+0056 <> U+028B
              (voiced labiodental approximate)
   BSL AST latin_small_letter_r
                                   <> latin_small_letter_turned_r
                                                                                                  <> U+0279
228
                                                                                    ;tipa| \*r
               (voiced alveolar
                                   approximant)
   FSL AST latin_small_letter_r
                                                                                         | /* r
                                                                                                  <> U+0279
                                    > latin_small_letter_turned_r
229
              (voiced alveolar
                                   approximant)
   BSL COL latin_capital_letter_R <> latin_small_letter_turned_r_with_hook
                                                                                    ;tipa | \:R
                                                                                                  <> U+027B
              (voiced retroflex
                                   approximant)
                                                                                                  <> U+027B
   FSL COL latin_capital_letter_R
                                    > latin_small_letter_turned_r_with_hook
                                                                                         | /:R
231
              (voiced retroflex
                                   approximant)
  ; latin_capital_letter_Q
                                                                                         | U+0051 <> U+0279
                                    > latin_small_letter_turned_r
             (voiced alveolar
                                  approximant)
  ; latin_small_letter_r
                                     > latin_small_letter_turned_R
                                                                                         | U+0072 <> U+0279
233
             (voiced alveolar
                                  approximant)
                                                                                    ;tipa | U+006A <> U+006A
  ; j
235
             (voiced palatal
                                  approximant)
  ;\textturnmrleg
                                    <> latin_small_letter_turned_m_with_long_leg
                                                                                   ;tipa|
                                                                                                  <> U+0270
236
             (voiced velar
                                  approximant)
   FSL AST latin_small_letter_m
                                     > latin_small_letter_turned_m_with_long_leg
                                                                                      | /*m
                                                                                                  <> U+0270
              (voiced velar
                                   approximant)
   digit_four
                                    <> latin_small_letter_turned_h
                                                                                    ;tipa | U+0034 <> U+0265
238
               (voiced rounded palatal approximant)
   BSL AST latin_small_letter_w
                                  <> latin_small_letter_turned_w
                                                                                    ;tipa| \*w
                                                                                                  <> U+028D
230
               (voiceless rounded labiovelar approximant)
              tin_small_letter_w > latin_small_letter_turned_w (voiceless rounded labiovelar approximant)
240
   FSL AST latin_small_letter_w
                                                                                        | /*w
                                                                                                  <> U+028D
241
   FSL latin_small_letter_h latin_small_letter_w <> modifier_letter_small_h_with_hook
              latin_small_letter_w
                                                   ; | /hw <> U+02B1 U+028D (aspirated w as in
               "white")
  ; lateral approximant sounds
                                                                                    ; tipa | U+006C <> U+006C
246
  ; |
             (voiced alveolar lateral approximant)
248
   BSL COL latin_small_letter_l
                                    <> latin_small_letter_l_with_retroflex_hook
                                                                                    ;tipa| \: |
                                                                                                   <> U+026D
               (voiced retroflex lateral approximant)
   FSL COL latin_small_letter_l > latin_small_letter_l_with_retroflex_hook
                                                                                                  <> U+026D
249
                                                                                    ; | /:1
              (voiced retroflex lateral approximant)
                                                                                    ;tipa | U+004C <> U+028E
250
   latin_capital_letter_L
                                    <> latin_small_letter_turned_y
              (voiced palatal
                                 lateral approximant)
   BSL SCO latin_capital_letter_L <> latin_letter_small_capital_L
                                                                                    ;tipa | \;L
                                                                                                   <> U+029F
251
              (voiced velar
                                 lateral approximant)
   FSL SCO latin_capital_letter_L > latin_letter_small_capital_L
                                                                                                  <> U+029F
                                                                                        | /;L
              (voiced velar
                                 lateral approximant)
   BSL VLN TIL digit_one
                                   <> latin_small_letter_l_with_middle_tilde
                                                                                    ; tipa | \|~1
                                                                                                  <> U+026B
253
              (velarized voiced alveolar lateral approximant)
   ;FSL VLN TIL digit_one
                                    > latin_small_letter_l_with_middle_tilde
                                                                                         | /|~1
                                                                                                  <> U+026B
             (velarized voiced alveolar lateral approximant)
   FSI VIN
                digit_one
                                    > latin_small_letter_l_with_middle_tilde
                                                                                         | /|1
                                                                                                  <> U+026B
              (velarized voiced alveolar lateral approximant)
  ; close vowel sounds
60
  : i
                                                                   ;tipa|
                                                                                             (close front
             unrounded vowel)
                                                                   ;tipa|
                                                                                             (close front
  ; у
             rounded
                        vowel)
```

```
<> latin_small_letter_i_with_stroke
                                                                ;tipa | U+0031 <> U+0268 (close central
   digit_one
             unrounded vowel)
                         <> latin_small_letter_u_bar
                                                                ;tipa | U+0030 <> U+0289
   digit_zero
                                                                                         (close central
              rounded
                       vowel)
   latin_capital_letter_W <> latin_small_letter_turned_m
                                                                :tipa | U+0057 <> U+026F
                                                                                         (close back
             unrounded vowel)
  : u
                                                                ;tipa|
                                                                                          (close back
            rounded vowel)
  ; semi-high vowel sounds
68
   latin_capital_letter_l <> latin_letter_small_capital_l
                                                                ;tipa | U+0049 <> U+026A (semi-high
270
              front unrounded vowel)
   latin_capital_letter_Y <> latin_letter_small_capital_Y
                                                                ;tipa| U+0059 <> U+028F
                                                                                         (semi-hiah
              front rounded
                            vowel)
   latin_capital_letter_U <> latin_small_letter_upsilon
                                                                ;tipa | U+0055 <> U+028A (semi-high back
              rounded
                        vowel)
                                                                               > U+1D1C (semi-high
  ; FSL latin_capital_letter_U > latin_letter_small_capital_U ; | /U
            back rounded vowel), KK
  ;FSL latin_capital_letter_U > U+1D1C ;
                                           | /U
                                                       > U+1D1C (semi-high back rounded
                                                                                            vowel). KK
   FSL latin_capital_letter_U > latin_capital_letter_U ; | /U
                                                                     > U
                                                                                (semi-high back
                      vowel), KK
             rounded
  : close-mid vowel sounds
                                                                 ;tipa|
                                                                                           (close-mid
  ;е
            front
                   unrounded vowel)
                                                                 ; tipa \mid U+006F \Leftrightarrow U+006F (close-mid
  ; 0
                    rounded
            back
   BSL latin_small_letter_o <> latin_small_letter_o_with_stroke ;tipa| \o
                                                                               <> U+00F8 (close-mid
              front
                    rounded vowel)
   FSL latin small letter o > latin small letter o with stroke ;
                                                                               <> U+00F8
                                                                                          (close-mid
                                                                     | /o
             front rounded
                            vowel)
                            <> latin_small_letter_reversed_e
                                                                 ;tipa | U+0039 <> U+0258
                                                                                          (close-mid
              central unrounded vowel)
   digit_eight
                            <> latin_small_letter_barred_o
                                                                 ;tipa| U+0038 <> U+0275
                                                                                          (close-mid
285
             central rounded
                               vowel)
                           <> latin_small_letter_rams_horn
                                                                 :tipa | U+0037 <> U+0264
                                                                                          (close-mid
   digit seven
             back
                     unrounded vowel)
88
                            <> latin_small_letter_schwa
   commercial_at
                                                                 :tipa | U+0040 <> U+0259 (mid central
              vowel)
   FSL commercial_at latin_small_letter_r
                                               <> latin_small_letter_schwa_with_hook ;tipa| /@r <>
             U+025A (r-colored schwa)
   FSL digit_three latin_small_letter_r
                                                <> latin_small_letter_reversed_open_e_with_hook ; /3r <>
             U+025D (rhotarized lower-mid central vowel)
  ; open mid vowel sounds
   latin_capital_letter E
                                                 <> latin_small_letter_open_E
                                                                                              ;tipa|
             U+0045 <> U+025B (open-mid front unrounded vowel)
   BSL latin_small_letter_o latin_small_letter_e <> latin_small_ligature_oe
                                                                                              ;tipa| \oe
                <> U+0153 (open-mid front rounded vowel)
   FSL latin_small_letter_o latin_small_letter_e <> latin_small_ligature_oe
                                                                                                   /oe
                <> U+0153 (open-mid front rounded vowel)
   FSL COL latin_small_letter_e
                                                 <> latin_small_letter_closed_open_e
301
                                                                                                  | /:e
                 <> U+029A (lower-mid front rounded
                                                     vowel)
   {\tt digit\_three}
                                                 <> latin_small_letter_reversed_open_E
                                                                                              ;tipa|
             U+0033 <> U+025C (open mid central unrounded vowel)
  ;\textcloserevepsilon
                                                 <> latin_small_letter_closed_reversed_open_e ;tipa|
                    <> U+025E (open mid central rounded vowel)
   FSL latin_small_letter_e
                                                 <> latin_small_letter_closed_reversed_open_e ; /e
                 <> U+025E (open mid central rounded vowel)
                                                 <> latin_small_letter_turned_V
   digit two
                                                                                              ; tipa |
             U+0032 <> U+028C (lower-mid back unrounded vowel)
   latin_capital_letter_O
                                                <> latin_small_letter_open_O
                                                                                              ; tipa |
             U+004f \Leftrightarrow U+0254 (lower-mid back rounded vowel)
    near-open vowel sounds
```

```
BSL latin_small_letter_a latin_small_letter_e <> latin_small_letter_ae
                                                                                     ;tipa | \ae
              U+00E6 (near-open front unrounded vowel)
   FSL latin_small_letter_a latin_small_letter_e > latin_small_letter_ae
                                                                                                   <> U+00E6
                                                                                            /ae
    digit_five
                                                   <> latin small letter turned a
                                                                                     ;tipa | U+0035 <>
              U+0250 (near-open central vowel)
B16
  ; open vowel sounds
  ; a
                                                                                           ;tipa|
318
                               (open front unrounded vowel)
   BSL latin_capital_letter_O latin_capital_letter_E <> latin_letter_small_capital_OE
                                                                                           ;tipa | \OE
              U+0276 (open front rounded
                                          vowel)
   FSL latin_capital_letter_O latin_capital_letter_E > latin_letter_small_capital_OE
                                                                                               | /OE
                                                                                                          <>
              U+0276 (open front rounded vowel)
    latin_capital_letter_A
                                                       <> latin_small_letter_alpha
                                                                                           ;tipa | U+0041 <>
              U+0251 (open back unrounded vowel)
    digit six
                                                       <> latin small letter turned alpha ;tipa | U+0036 <>
              U+0252 (open back rounded
                                            vowel)
   ; apical vowel sounds
   FSL COM latin_small_letter_r
                                                       <> latin_small_letter_reversed_r_with_fishhook
                 | /; r <> U+027F
                                   (apical dental vowel)
   ;\textvibyi
                                                       <> latin small letter squat reversed esh
             ;tipa|
                         <> U+0285 (apical retroflex vowel)
   ;\textlhtlongi
                                                       <> latin_small_letter_reversed_r_with_fishhook
             ;tipa|
                         <> U+027F (apical dental vowel)
   ; Diacritics
   FSL GTS latin_small_letter_h <> modifier_letter_small_h
                                                                   ; />h <> U+02B0
335
337
   ; clicks
338
   BSL AST latin_small_letter_t
                                     <> latin_small_letter_turned_t
                                                                              ;tipa | \* t <> U+0287 (dental
              click)
340
   FSL AST latin_small_letter_t
                                     <> latin_small_letter_turned_t
                                                                                   | /* t <> U+0287 (dental
              click)
   ;\textObullseye
                                     <> latin_letter_bilabial_click
                                                                              ;tipa|
                                                                                         <> U+0298
             (bilabial click)
   FSL PER latin_capital_letter_O <> latin_letter_bilabial_click
                                                                                   | /.O <> U+0298
              (bilabial click)
   ;\textinvglotstop
                                     <> latin_letter_inverted_glottal_stop
                                                                              ;tipa|
                                                                                         <> U+0296
             (alveolar lateral click)
   FSL COL QUM
                                     <> latin_letter_inverted_glottal_stop
                                                                                | /:? <> U+0296
              (alveolar lateral click)
                                     <> latin_letter_stretched_c
   ;\textstretchc
                                                                              ;tipa|
                                                                                         <> U+0297 (palatal
345
             or alveolar click)
346
   FSL COL latin_capital_letter_C
                                   <> latin_letter_stretched_c
                                                                                | /:C <> U+0297 (palatal
              or alveolar click)
```

E.1.3 Traditional to simplified character mapping

This is a large file (about 3000 lines) and so is not listed here. To download it, go to

https://github.com/dgreenhoe/unihan

https://github.com/dgreenhoe/teckitmaps



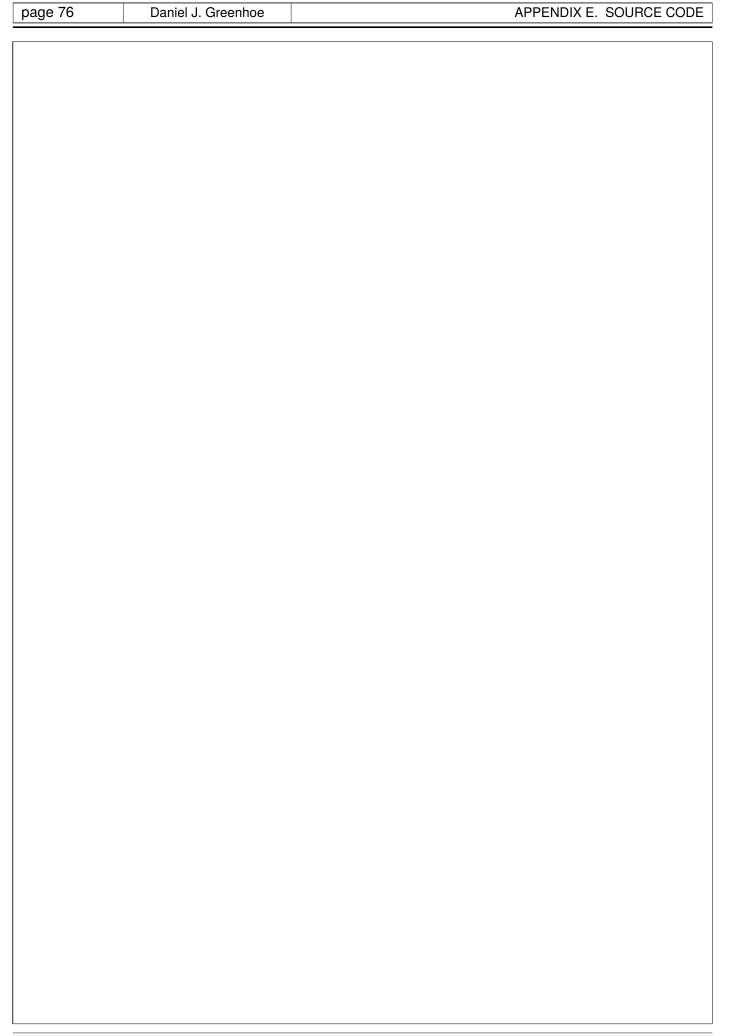
Unicode.org text file to TECkit map utility **E.2**

For a description of this utility, see Section D.8 (page 59). To download C source, see https:// github.com/dgreenhoe/unihan.

```
Daniel J. Greenhoe
     unicode variants text file to TECkit map file
  * header files
    -----*/
  #include < stdio . h>
  #include < stdlib . h>
11
  #include < string . h>
  * internal prototypes
16
  int \ \ var2map(char \ \ ^*namein\,, \ \ char \ \ ^*nameout)\,;
17
18
19
   * main
20
21
  int main(int argc, char *argv[]) {
22
23
    int rval;
24
    srand((unsigned)time(NULL));
25
26
27
    if (arac == 3)
      rval=var2map(argv[1], argv[2]);
28
29
30
    else{
31
      fprintf(stderr, "Usage:\n");
      32
33
                \"http://www.unicode.org/Public/6.1.0/ucd/ Unihan-6.1.0d1.zip\"\n");
      fprintf(stderr, "For example TECkit mapping files, see\n
34
                \"http://scripts.sil.org/cms/scripts/page.php?item_id=MappingFiles\"\n");
36
37
38
    if(rval)fprintf(stderr, "Error: rval=%d\n", rval);
39
    return rval;
41
42
     Variants to TECkit mapping file
       Input: filename of Unihan_Variants.txt file (ASCII encoded) see for example "Unihan_Variants.txt" in http://www.unicode.org/Public/6.1.0/ucd/
44
45
             Unihan-6.1.0d1.zip
       Output: filename of TECkit mapping file
               For examples see http://scripts.sil.org/cms/scripts/page.php?item_id=MappingFiles
  int var2map(char *namein, char *nameout){
    #define MAXLINE 1024
50
51
    long i;
    int j;
char *fval,*sval;
FILE *fpin,*fpout;
53
54
    char buf[MAXLINE], buf2[MAXLINE];
55
56
      fpin =fopen(namein, "r");
57
58
      fpout=fopen(nameout, "w");
      if (fpin == NULL) {
59
        fprintf(stderr, "Unable to open file %s\n", namein);
60
61
        return -1;
62
63
      if (fpout==NULL) {
64
        fprintf(stderr, "Unable to open file %s\n", nameout);
65
        return -1;
```

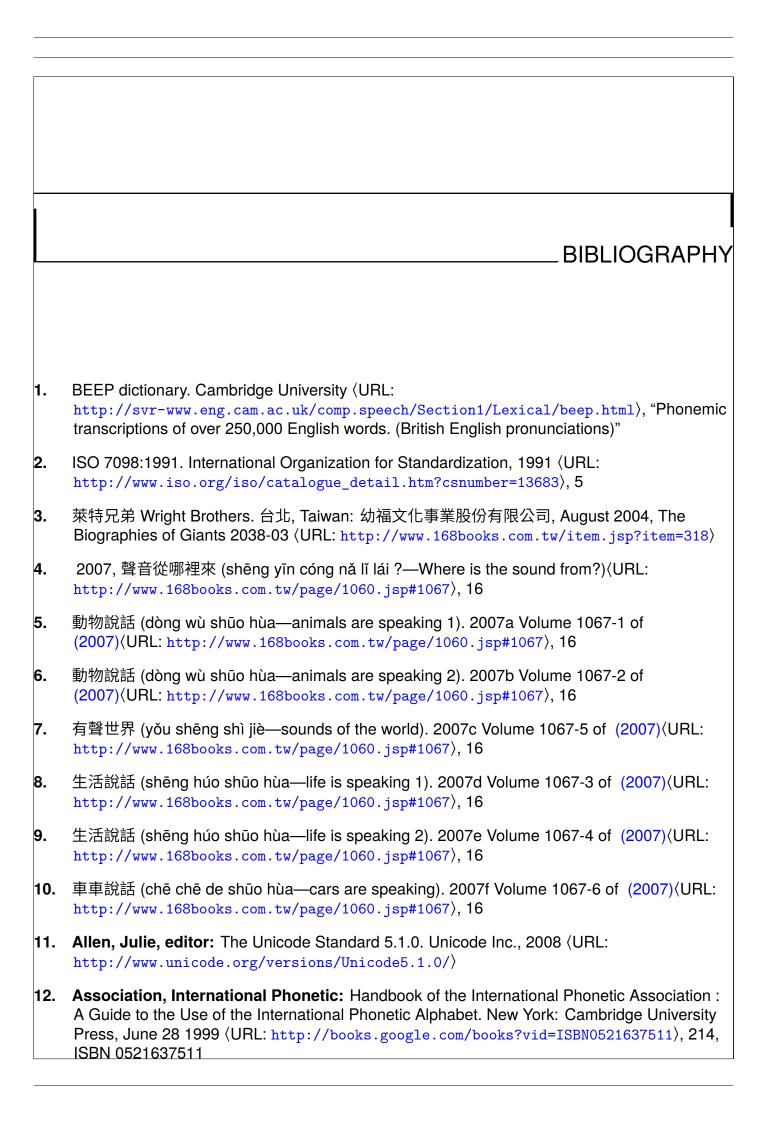
```
68
69
70
71
    72
73
   74
75
                                     \"Unicode 6.1.0 traditional Chinese characters\"\n");
76
                                     \"Unicode 6.1.0 simplified Chinese characters\"\n");
78
                                     \" mailto : dgreenhoe@gmail.com\"\n");
79
80
81
    fprintf(fpout, "pass(Unicode)\n"); /* allow unicode input and output */
82
    for ( i = 1, fval = " "; fval! = NULL; i ++) {
84
     fval=fgets(buf,MAXLINE,fpin);
85
     sval=strchr(buf, '\n');
if(sval!=NULL) *sval=NULL;
86
87
                              /* remove newline character from string */
     sval=strchr(buf, '#');
if(sval!=NULL) *sval=NULL; /* delete comments */
sval=strstr(buf, "kSimplifiedVariant");
88
89
90
      if (sval!=NULL) {
91
       "sval = ">'; /* replace 'k' with mapping operator */
for(j=1; j <=17; j++) sval[j]=' '; /* replace "SimplifiedVariant" with spaces */
fprintf(fpout, "%s; %6Id\n", buf, i);</pre>
92
93
94
95
96
97
    fclose(fpin);
    fclose(fpout);
98
99
    return 0;
```









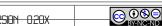


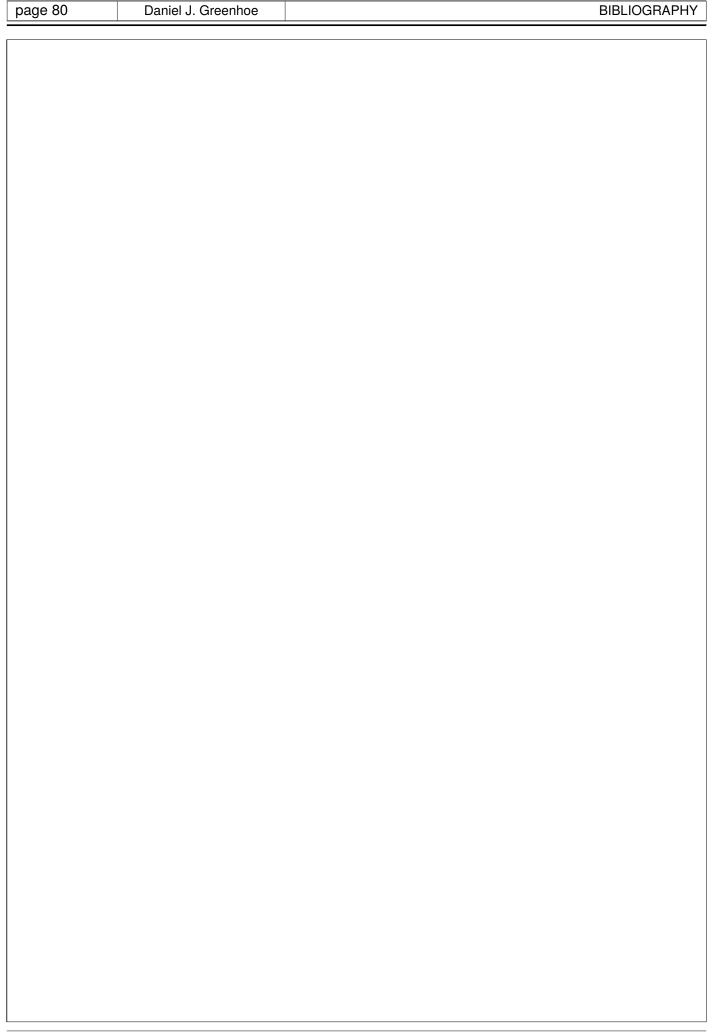
- 13. Atiya, Farid: Ancient Egypt. American Univ in Cairo Press, 2006 (URL: http://books.google.com/books?vid=ISBN9771736345\), 296, ISBN 9771736345
- 14. Dr. Eye for Windows 95/98/NT/2000/ME/XP. Inventec Group (URL: http://www.dreye.com)
- **Ewen, David:** The Book of Modern Composers. New York: Alfred A. Knopf, 1950 (URL: 15. http://books.google.com/books?id=yHw4AAAAIAAJ\, 586
- **16. Ewen, David:** The New Book of Modern Composers. 3rd edition. New York: Alfred A. Knopf, 1961 (URL: http://books.google.com/books?id=bZIaAAAAMAAJ), 491
- **17. Group, Carnegie Mellon Speech:** Carnegie Mellon University Pronouncing Dictionary. Carnegie Mellon University (URL: http://www.speech.cs.cmu.edu/cgi-bin/cmudict)
- Harbaugh, Rick: 中文字譜 Chinese Characters: A Genealolgy and Dictionary. 18. Zhongwen.com First Yale University Press impression, 2009 (URL: http://www.zhongwen.com/>, ISBN 0966075005
- 19. Hardy, Godfrey H.: A Mathematician's Apology. Cambridge: Cambridge University Press, 1940 (URL: http://www.math.ualberta.ca/~mss/misc/A%20Mathematician's\%20Apology.pdf>
- 20. Heijenoort, Jean Van: From Frege to Gödel: A Source Book in Mathematical Logic, 1879-1931. Cambridge, Massachusetts: Harvard University Press, 1967 (URL: http://www.hup.harvard.edu/catalog/VANFGX.html>
- 21. Housman, Alfred Edward: More Poems. Alfred A. Knopf, 1936 (URL: http://books.google.com/books?id=rTMiAAAAMAAJ\, 146
- **22. Kenyon, John Samuel and Knott, Thomas Albert:** A Pronouncing Dictionary of American English. Springfield: G. & C. Merriam Co., 1949 (URL: https://archive.org/details/pronouncingdicti00unse/, 400
- 23. Kenyon, John Samuel and Knott, Thomas Albert: A Pronouncing Dictionary of American English. Springfield: G. & C. Merriam Co., June 1953 (URL: http://www.amazon.com/dp/0877790477\, 484, ISBN 0877790477
- Lewis, M. Paul, editor: Ethnologue: Languages of the World. 16th edition. Dallas: Intl 24. Academic Bookstore, 2009 (URL: http://www.ethnologue.com/), 1248, ISBN 1556712162
- 25. McNaughton, William and Ying, Li: Reading & Writing Chinese: a guide to the Chinese writing system: the student's 1,020 list, the official 2,000 list. Revised edition. Rutland: Charles E. Tuttle Company, September 1999 (URL: http://books.google.com/books?vid=ISBN0804832064), 352, ISBN 0-8048-3206-4
- 26. Paine, Lincoln P.: Warships of the World to 1900. Houghton Mifflin Harcourt, 2000, Ships of the World Series (URL: http://books.google.com/books?vid=ISBN9780395984149), 266, ISBN 9780395984147
- 27. Prasad, Tarni: A Course in Linguistics. New Delhi: Prentice-Hall of India Private Limited, 2008 (URL: http://books.google.com/books?vid=ISBN8120334299), ISBN 9788120334298
- 28. Ross, Claudia and Sheng Ma, Jing heng: Modern Mandarin Chinese Grammar: A Practical Guide. London, New York: Routledge, 2006, Routledge modern grammars (URL: http://books.google.com/books?vid=ISBN0415700108), 397, ISBN 0415700108

BIBLIOGRAPHY Daniel J. Greenhoe page 79

- 29. Sears, Richard: Chinese Etymology. 2017 (URL: hanziyuan.net)
- **30. Shibles, Warren A.:** Chinese Romanization Systems: IPA Transliteration. Sino-Platonic Papers, November 1994, Nr. 52 (URL: http://www.sino-platonic.org/complete/spp052 chinese ipa.pdf)
- 31. Wilford, John Noble: Hunting One Language, Stumbling Upon Another. The New York Times, October 11 2010 (URL: http://www.nytimes.com/2010/10/12/science/12language.html), accessed 2010 March 16 EST
- 32. 幼福編輯部, editor: 大黃牛學勤勞 (dà huáng níu xúe qín láo—Big Yellow Cow Learns Diligence). Volume 2034-1, 寶寶心靈成長雙語繪本 (bǎo bǎo xin lińg chěng zhǎng shūang yǔ hùi yǔ) Baby intelligent growth bilingual illustrated books. 台北, Taiwan: 幼福文化事業股份有限公司, August 2005 〈URL: http://www.168books.com.tw/page/2034.jsp〉, 34, ISBN 9789577475169
- 33. 張晉霖: 台北 (Taiwan): 風車出版 (fēng chē chū bǎn—Windmill Publishing), September 2005a, 一本從故事理啟發智慧學習的圖畫書 (yì běn cóng gù shì lǐ qǐ fā zhì hùi xúe xí de tú hùa shū—an illustrated book using stories to inspire wisdom and learning) 〈URL: http://shopping.windmill.com.tw/epaperbox/E1019999070.html〉, [張晉霖: Zhāng Jìn Lín]
- 34. 張晉霖: 一塊錢·買一個夢 (yí kùai qián·mǎi yī ge mèng—One dollar·buy one dream). 台北 (Taiwan): 風車出版 (fēng chē chū bǎn—Windmill Publishing), May 2005b Volume 7 of 張晉霖 (2005a): 〈URL: http://shopping.windmill.com.tw/epaperbox/E1019999070.html#7〉, [張晉霖: Zhāng Jìn Lín], ISBN 9789867267108
- 35. 張晉霖: 哈啾不見了 (hā jiū bú jiàn le—"Achoo" No More). 台北 (Taiwan): 風車出版 (fēng chē chū bǎn—Windmill Publishing), September 2005c Volume 8 of 張晉霖 (2005a): 〈URL: http://shopping.windmill.com.tw/epaperbox/E1019999070.html#8〉, 28, [張晉霖: Zhāng Jìn Lín], ISBN 9789867267177
- 36. 張晉霖: 白雲枕頭 (bái yún zhěn tóu—White Cloud Pillow). 台北 (Taiwan): 風車出版 (fēng chē chū bǎn—Windmill Publishing), May 2005d Volume 3 of 張晉霖 (2005a): 〈URL: http://shopping.windmill.com.tw/epaperbox/E1019999070.html#3〉, 36, [張晉霖: Zhāng Jìn Lín]
- 37. 葉德明, editor: Far East Pinyin Chinese-English Dictionary: 遠東拼音漢英辭典. Taipei: 遠東圖書公司 (yǔan dōng tú shū gōng ši) The Far East Book Company, Limited, 2000 〈URL: http://www.worldcat.org/isbn/957612462X〉, 878, editor 葉德明=Yè Dé Mińg (leaf virtue bright), ISBN 978-9576124624
- 38. 許慎: 說文解字注 (Shūo Wén Jiě Zì Zhù, Explanatory Notes of Chinese Characters).
 GuangZhou HuanHui Cultural Development Company Limited, 121 〈URL:
 http://www.gg-art.com/imgbook/index.php?bookid=53), [許慎: Xǔ Shèn]
- **39. 黃慧敏:** 阿尼要搬家 (ā ní yào bān jiā—Annie wants to move). Volume B6615, 品德·智能學習圖畫書 (pǐndé. zhìn éng xúe xí tú hùa shū, Character—Intelligent learning picture-story books). 台北 (Taiwan): 世一文化 (shì yì wén hùa—The world of one culture—Acme Books), September 2006 〈URL: http://www.acmebooks.com.tw/product/showprod.asp?PDNBR=2618, 24, [黃慧敏: Huáng Hùi Mǐng]



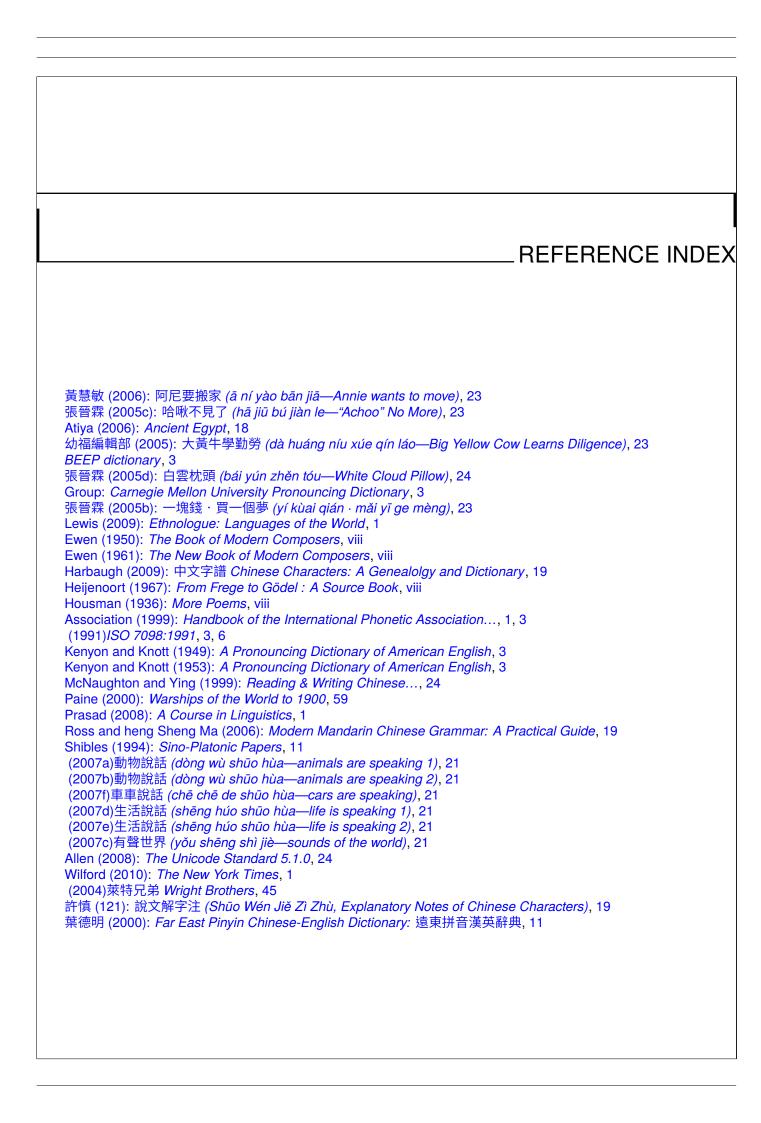


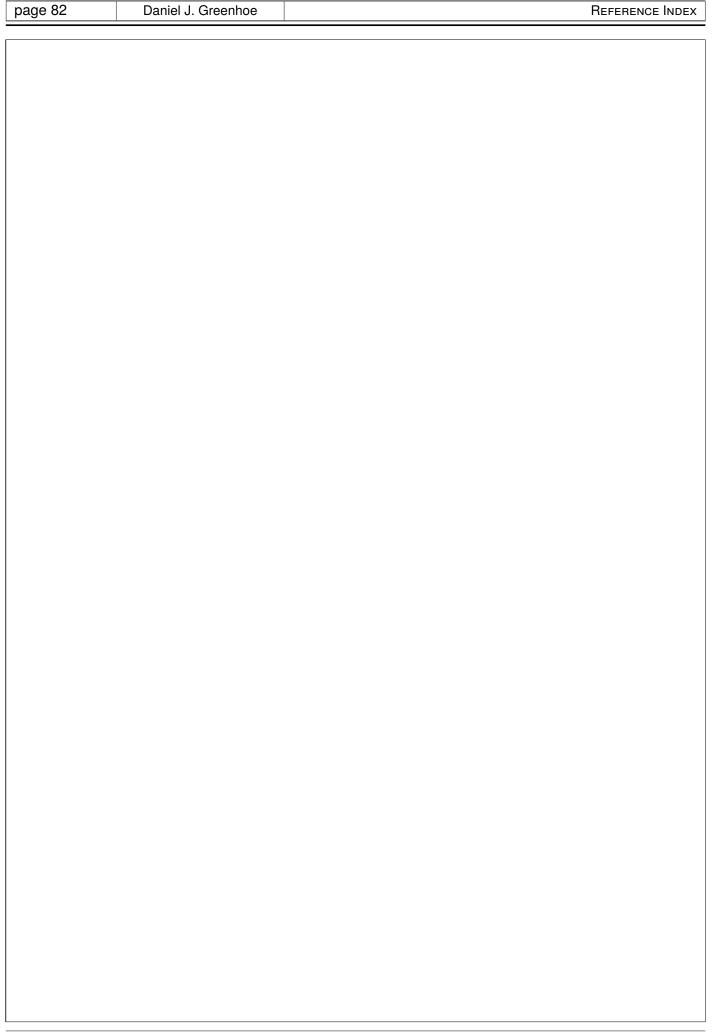


















CHINESE CHARACTER INDEX

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書/书 (shū) book, 57
                                       亮/亮 (liàng) bright, 23
                                                                              俠/侠 (xiá) chivalry, 39
書/书 (shū) book, 57
                                       亮/亮 (liàng) bright, 39
                                                                              信/信 (xin) to believe, 53
書/书 (shū) book, 57
                                       人/人 (rén) person, 19
                                                                              倆/俩 (liǎng) craft; ability, 40
—/— (yī) 1, 33, 34
                                       人/人 (rén) people, 51, 52
                                                                              個/个 (ge) (quantifier), 10
—/— (yī) 1, 31, 32
                                       人間/人间 (rén jiān) world of
                                                                              假借/假借 (jiě jià) to make
一下/一下 (ýi xià) a short
                                       man, 51
                                                                              use of, 19
                                       仁/仁 (rén)
while, 24
                                                     benevolence:
                                                                              傀/傀 (gūi) great; wonderful,
一個/一个 (yí ge) a, 10
                                       kindness, 39
                                                                              38
丁/丁 (Ding), 35
                                       仇/仇 (Chóu) enemy, 36
                                                                              傅/傅 (Fù) a teacher, 35
                                       今/今 (jiō) now, 53
                                                                              傑/杰 (jié) remarkable, 38
丁/丁 (dīng) nail, 19
七/七 (qī) 7, 31-33
                                       今夕/今夕 (jiň xì) today, 50
                                                                              備/备 (bèi) completeness, 38
\equiv / \equiv (sān) 3, 33, 34
                                       今天/今天 (jīn tiān) today, 10
                                                                              催/催 (Cūi) high and steep,
\equiv / \equiv (sān) 3, 31–33
                                       介/介 (jiè) upright, 38
                                       他/他 (tā) he, 24
                                                                              億/亿 (yì) 10<sup>8</sup>, 34
上/上 (shàng) above, 20
上/上 (shàng) on top of, 24
                                       他/他 (tā) he, 48
                                                                              優/优 (yōu) excellent; abun-
                                       仙/仙 (xiān) celestial being,
                                                                              dant, 40
下/下 (xià) below, 20
                                                                              儼/俨 (yǎn) majestic; re-
丌/丌 (jī) stool, 20
                                       20
不/不 (bù) not, 11
                                       令/令 (ling) excellent, 39
                                                                              spectable, 39
不/不 (bù) not, 51
                                       任/任 (Rén), 36
                                                                              リレノル (rén) person, 19
不勝/不胜 (bù shēng) too, 50
                                       伊/伊 (Yī) he; she, 37
                                                                              元/元 (Yúan) first, 42
不知/不知 (bù zhī) wonder if,
                                       伯/伯 (bó) a count (nobility),
                                                                              先生/先生 (xiān shēng) mis-
                                                                              ter, 48, 49
世/世 (shì) generation, 42
                                       但願/但愿 (dàn yùan) if only,
                                                                              克/克 (kè) to overcome, 39
中/中 (zhōng) medium, 58
                                                                              入/入 (rù) to enter, 19
                                       52
丰/丰 (fēng) good-looking, 41
                                       低/低 (dī) hang down, 51
                                                                              全/全 (gúan) completely, 51
之/之 (zhī) of, 53
                                       佐/佐 (zǔo) to assist, 42
                                                                              八/八 (bā) 8, 20
之/之 (zhī) to arrive at, 43
                                       何/何 (Hé), 35
                                                                              //// (bā) eight, 10
乒/乒 (pīng) (onomatopoeia),
                                       何事/何事 (hé shì) why, 51
                                                                              八八 (bā ) 8, 31-33
                                       何似/何似 (hé sì) similiar to,
                                                                              公雞/公鸡 (gōng jī) rooster,
乘/乘 (chéng) ride, 50
                                       51
                                       何年/何年 (hé nián) what
                                                                              六/六 (lìu) 6, 31-33
九/九 (jǐu) 9, 31-33
也/也 (yě) also, 20
                                       year, 50
                                                                              六/六 (qī ) 7, 32
乾/干 (gān) dry, 59
                                       何等/何等 (hé děng) how, 53
                                                                              共/共 (gòng) share, 52
了/了 (le) (change of state),
                                       余/余 (Yú) I, 36
                                                                              冰/冰 (bing) ice, 43
23, 24
                                       你的/你的 (nǐ de) your, 11
                                                                              几/几 (jī) small table, 19
事/事 (shì) affairs, 51
                                       佳/佳 (jiā) beautiful, 40
                                                                              凡/凡 (fán) all, 20
二/二 (er) 2, 31, 32
                                       佳/佳 (jiā) excellent, 41
                                                                              凱/凯 (kǎi) peace. 38
\equiv / \equiv (liăng) 2, 33
                                       佼/佼 (jiǎo) charming, 38
                                                                              凱/凯
                                                                                       (kǎi)
                                                                                               triumphant
                                       使/使 (shǐ) to make, 53
五/五 (lìu) 6, 32
                                                                              strains, 42
五/五 (sì) 4, 31
                                       侯/侯 (Hóu) marquis, 35
                                                                              刀/刀 (dāo) knife, 19
五/五 (wǔ ) 5, 31-33
                                       保/保 (bǎo) to guard, 38
                                                                              初/初 (chū) first, 53
井/井 (jiňg) a well, 38
                                                                              <u> 別時/別时 (bíe shí) time to</u>
                                       保/保 (bǎo) to protect, 20
```

leave, 51 到處/到处 (dào chù) every-	周/周 (Zhōu) Zhou Dynasty, 36	嘩/哗 (hūa) (onomatopoeia), 22
where, 48	呱/呱 (gūa) (onomatopoeia),	嘰/叽 (jī) to talk indistinctly,
剋/克 (kè) to overcome, 40	22	22
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劉/刘 (Liú) to kill, 36	48	噗/噗 (pū) (onomatopoeia),
力/力 (lì) force, 19	呼(呼 (hū) to exhale, 22, 24	22 (4=) (
力/力 (lì) strength, 39	和/和 (hé) harmony, 38	噹/当 (dāng) (ono-
功/功 (gōng) merit; achieve- ment, 38	咕/咕 (gū) to murmur, 21, 23 咕嚕/咕噜 (gū lū) "gur-	matopoeia), <mark>21</mark> 嚄/嚄 (hùo) (onomatopoeia),
助/助 (zhù) to help, 40	gle hyperpage, 23	22
勁/劲 (jih) vigor, 38	咚/咚 (dōng) (ono-	噜/噜 (lū) verbose, 22, 24
勁/劲 (jing) powerful, 40	matopoeia), 21	嚴/严 (Yán) stern; strict, 36
勇/勇 (yǒng) courageous;	咩/咩 (miē) (onomatopoeia),	嚴/严 (yán) beautiful, 39
fearless, 40	22	囉/啰 (lūo) to chatter, 22
勤/勤 (qiń) diligent; industri-	咯/咯 (gé) a click, 21	四/四 (sì) 4, 33, 34
ous, 39	咻/咻 (xiū) din, 23 咿/咿 (yī) (sound), 48, 49	四/四 (sì) 4, 31–33
勳/勳 (xūn) merits; honors, 39	哇/哇 (wā) (a particle), 23	四/四 (wǔ) 5, 31 固/固 (gù) stable; sturdy, 38
包/包 (Bāo) to wrap, 36	哈/哈 (hā) to breathe on, 22	國/国 (Gúo) country, 42
\Box/\Box (fāng), 20	哈啾/哈啾 (hā jiū) achoo, 23	園/园 (yúan) garden, 48
匠/匠 (jiàng) craftsman, 40	哎/哎 (āi) (onomatopoeia), 21	圓/圆 (yúan) round, 51
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千/千 (qiān) 1000, 33, 34	哲/哲 (zhé) a thinker; wise,	地/地 (dì) earth, 48, 49
千里/千里 (qiān lǐ) long dis-	40 唐/唐 (Tána) the Tana Du	埕/埕 (Chéng), 35
tance, 52 協/协 (xié) to agree; to help,	唐/唐 (Táng) the Tang Dy- nasty, 36	域/域 (yù) frontier, 40 堅/坚 (jiān) strong and
39	唧/唧 (jī) pump, 22	durable, 38
南/南 (Nán) south, 37	唷/唷 (yō), 23	塊/块 (kuài) chunk, 48, 49
博/博 (bó) extensive; abun-	啊/啊 (ā) (onomatopoeia), 21	塞/塞 (sài) to compete, 39
dant, 38	問/问 (wèn) ask, 50	增/增 (zēng) to increase, 40
$\frac{1}{2}$ / $\frac{1}{2}$ (Bu) to divine, 36	啦/啦 (la) (onomatopoeia), 22	\pm/\pm (shì) scholar, 39
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又/又 (yòu) but, 50 \square/\square (kǒu) mouth, 20	39	grandmother, 8
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미/미 (bā) trumpet, 21	喵/喵 (miāo) "meow hyperpage,	heaven, 50
叮/叮 (dīng) to sting, 21	22	太/太 (Tài) very big, 37
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文/文 (Siii) filstory, 36 各/各 (gè) each, 10	嗒/嗒 (tà) dejected, 22	章/南升 (qi yi) ullusudi, 55 奉/奉 (fèng) to receive with
合/合 (hé) together, 51	嗚/呜 (wū) (onomatopoeia),	respect, 38
向/向 (Xiàng) to face, 37	23	奕/奕 (yì) great; grand; abun-
君/君 (jūn) monarch, 43, 44	嗡/嗡 (wēng) (ono-	dant, 40
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吧/吧 (ba) (for suggestions),	嗤/嗤 (chī) to sneer, 21	奧/奥 (aò) mysterious; pro-
10	嗨/嗨 (hāi) "hi", 22	found, 38
吱/吱 (zī) a squeak, 23	嗶/哔 (bì) (onomatopoeia),	奮/奋 (fèn) to rise in force, 38
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妃/妃 (fēi) concubine, 43	41	徐/徐 (Xú) slowly; gently;
妍/妍 (yán) beautiful, <mark>42</mark>		calmly, 36
	寶貴/宝贵 (bǎo gùi) precious,	
妙/妙 (miào) wonderful; in-	53	得/得 (dé) obtain, 53
triguing; ingenious, 41	尋回/寻回 (xún húi) found, <mark>53</mark>	得/得 (dé) to obtain, <mark>53</mark>
妮/妮 (ní) maid, <mark>44</mark>	/」ヽ/ノ」ヽ(Xiǎo) little, 44	得/得 (de) to the extent of, 23
姚/姚 (Yáo) handsome, 36	小偷/小偷 (xǐao tōu) thief, 10	德/德 (dé) virtue, 38
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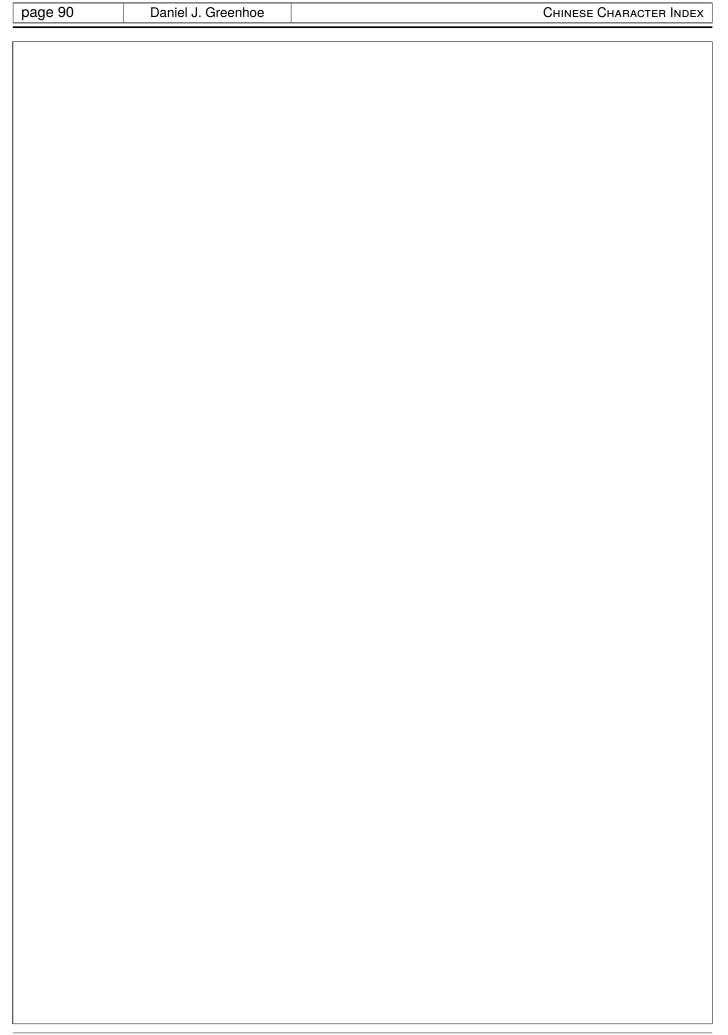
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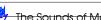




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