

Onset, Rhyme and Coda Corresponding Rules of the Sin-Korean Characters between Cantonese and Korean

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Introduction to the Korean Writing System

Hangul

● 박선생은 고등학교의 선생이다.

● 朴先生은 高等學校의 先生이다.

Sino-Korean Characters / Hanja (漢字)

s ɔ s æ
n ɲ

Korean pronunciation: sɔn.sæŋ

A Korean Passage with Hangeul

중학생의 일과는 분주하다 . 오전 여섯시에 기상한다 . 늦잠을 자면 조반을 굶고 등교하게 된다 . 학교 근처에 사는 학생은 걸어서 통학하지만 집이 먼 데 있는 학생은 시내버스나 전차로 통학한다 . 직장으로 출근하는 사람들과 등교하는 학생들의 수가 많으므로 교통은 여간 복잡하지 않다 .

시간은 학년에 따라 다르다 . 학년이 높으면 매일 평균 여섯 시간을 공부한다 . 국어, 수학, 물리, 화학, 외국어, 역사, 지리 등에 많은 시간이 배당된다 . 체육, 미술, 음악은 일주일에 한두 시간뿐이다 . 자기가 좋아하는 과목이 많은 날은 신이 나고 싫어하는 과목이 많은 날은 지루하다 .

A Korean Passage with Mixed scripts (Hangul and Sino-Korean characters)

中學生의 日課는 奔走하다 . 午前 여섯時에 起床한다 .
늦잠을 자면 朝飯을 굶고 登校하게 된다 . 學校 近處에 사는
學生은 걸어서 通學하지만 집이 먼 데 있는 學生은 市內버스
나 電車로 通學한다 . 職場으로 出勤하는 사람들과 登校하
는 學生들의 數가 많으므로 交通은 如干 複雜하지 않다 .

時間은 學年에 따라 다르다 . 學年이 높으면 每日 平均
여섯 時間을 工夫한다 . 國語, 數學, 物理, 化學, 外國語, 歷史, 地
理等に 많은 時間이 配當된다 . 體育, 美術, 音樂은 一週日에
한두 時間뿐이다 . 自己가 좋아하는 科目이 많은 날은 신이
나고 싫어하는 科目이 많은 날은 지루하다 .

Introduction

- Similar pronunciation between Cantonese words and Sino-Korean characters / Hanja (漢字)

- E.g.

Cantonese: 大學 [tai²² hɔk²²] ‘University’

Korean: 대학 大學 [tæ hak]

Cantonese: 平均 [p^hiŋ²¹ k^wen⁵⁵] ‘Average’

Korean: 평균 平均 [p^hyoŋ.kyn]

Previous Studies on the Corresponding Rules between Korean and Cantonese

- Kang and Simmons (2001)
 - Some correspondence in Cantonese and Korean codas
 - Nasal Codas
 - Cantonese /-p/ → Korean /-p/
 - Cantonese /-t/ → Korean /-l/
 - Cantonese /-k/ → Korean /-k/
 - Oral Codas
 - Cantonese /-m/ → Korean /-m/
 - Cantonese /-n/ → Korean /-n/
 - Cantonese /-ŋ/ → Korean /-ŋ/
- No observations were made on the correspondence in rhyme between Cantonese and Korean.

Korean consonants

	Bilabial	Alveolar	Palato-Alveolar	Velar	Glottal
Stop	p b p ^h ㅍ ㅂ ㅍ ^h	t d t ^h ㄷ ㄸ ㄷ ^h		k g k ^h ㄱ ㄲ ㄱ ^h	
Affricate			tʃ tʃ ^h ㅈ ㅊ ㅈ ^h		
Fricative		s ss ㅅ ㅆ			
Nasal	m ㅁ	n ㄴ		ŋ ㅇ	
Approximant		l ~ r ㄹ			h ㅎ

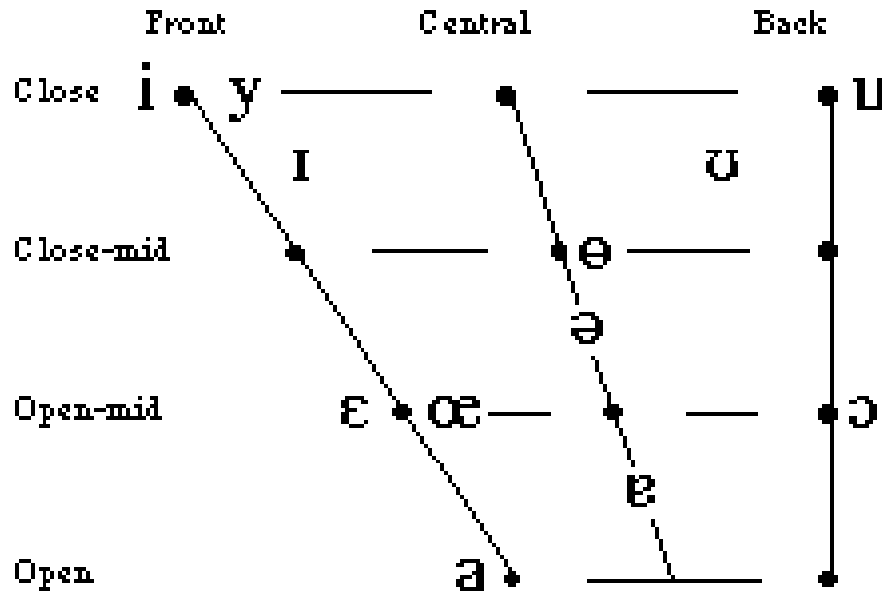
Cantonese consonants

	Bilabial	Labio-dental	Dental	Alveolar	Post-alveolar	Palatal	Velar	Labial-velar	Glottal
Plosive	p p ^h		t t ^h				k k ^h	k ^w k ^{wh}	
Affricate				ts ts ^h					
Nasal	m		n				ŋ		
Fricative		f		s					h
Approximant						j		w	
Lateral Approximant			l						

Cantonese and Korean vowels

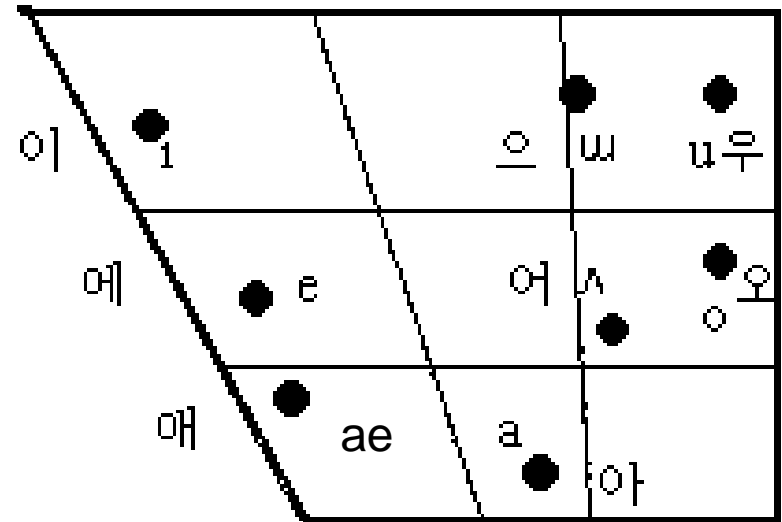
CANTONESE

VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel.

KOREAN



Handbook of the International Phonetic Association. 1999. Cambridge. Cambridge University Press.

Methodology



- Focus of the study:
2044 frequently used Sino-Korean characters which are selected by the Korean Ministry of Education (Kim & Jang, 2003).
 - 2 Sino-Korean characters are excluded since there are no corresponding characters in Cantonese.
 - If one Chinese character has several different pronunciations in Cantonese, these different pronunciations were treated as different items.
 - E.g. 畫 [wa³⁵] 'paint' (verb) [wak²²] 'picture' (noun)
 - The total number of items is 2081 characters.
- The pronunciations of the Chinese characters in Cantonese were based on He and Zhu (2001).

Corpus Design

- Cantonese Onset (O), Monophthong/Diphthong (N1 、 N2) and Coda (C) , Korean Onset (KO) 、 Monophthong/Diphthong (KN1 、 KN2) and Coda (KC) were entered into separate columns.
- A Partial List in the corpus

	Character	Cantonese Pronunciation	O	N1	N2	C	Korean	KO	KN1	KN2	KC
1	拜	bai	p	a	i		배	ㅂ	ㅏ		
2	敗	bai	p	a	i		패	ㅍ	ㅏ		
3	包	bau	p	a	u		포	ㅍ	ㅑ		
4	胞	bau	p	a	u		포	ㅍ	ㅑ		
5	飽	bau	p	a	u		포	ㅍ	ㅑ		
6	爆	bau	p	a	u		폭	ㅍ	ㅑ		ㄱ
7	白	bak	p	a		k	백	ㅂ	ㅏ		ㄱ
8	百	bak	p	a		k	백	ㅂ	ㅏ		ㄱ
9	伯	bak	p	a		k	백	ㅂ	ㅏ		ㄱ
10	帛	bak	p	a		k	백	ㅂ	ㅏ		ㄱ

Major Onset Correspondence between Cantonese and Korean (I)

Cantonese Onset	Korean Onset	No. of char.	Percentage	Example
p	p (ㅍ)	60	61.86%	博 (박)
	p ^h (ㅍ ^h)	37	38.14%	包 (포)
p ^h	p (ㅍ)	23	51.11%	拍 (박)
	p ^h (ㅍ ^h)	22	48.89%	破 (파)
t	t (ㄷ)	57	57.00%	道 (도)
	ts (ㄷ)	29	29.00%	低 (저)
	t ^h (ㄷ ^h)	10	10.00%	打 (타)
	ts ^h (ㄷ ^h)	3	3.00%	遞 (체)
t ^h	t (ㄷ)	31	39.24%	頭 (두)
	t ^h (ㄷ ^h)	27	34.18%	透 (투)
	ts ^h (ㄷ ^h)	10	12.66%	體 (체)
	ts (ㄷ)	9	11.39%	田 (전)
	s (ㅅ)	2	2.53%	盾 (순)
k	k (ㄱ)	171	95.53%	家 (가)
	h (ㄱ ^h)	8	4.47%	解 (해)
k ^h	k (ㄱ)	45	93.75%	期 (기)
	h (ㄱ ^h)	3	6.25%	吸 (흡)

Cantonese Onset	Korean Onset	No. of char.	Percentage	Example
k ^w	k (ㄱ)	28	100.00%	廣 (광)
k ^{wh}	k (ㄱ)	13	86.67%	誇 (과)
	h (ㄱ ^h)	2	13.33%	擴 (확)
ts	ts (ㄷ)	171	68.40%	正 (정)
	ts ^h (ㄷ ^h)	49	19.60%	總 (총)
	s (ㅅ)	25	10.00%	習 (습)
	t ^h (ㄷ ^h)	5	2.00%	宅 (택)
ts ^h	ts ^h (ㄷ ^h)	84	51.22%	層 (층)
	ts (ㄷ)	46	28.05%	財 (재)
	s (ㅅ)	30	18.29%	查 (사)
	t (ㄷ)	1	0.61%	茶 (다)
	k (ㄱ)	1	0.61%	車 (거)
	Ø (ㅇ)	1	0.61%	弛 (이)
	t ^h (ㄷ ^h)	1	0.61%	桌 (탁)

Major Onset Correspondence between Cantonese and Korean (II)

Cantonese Onset	Korean Onset	No. of char.	Percentage	Example
l	l (ㄹ)	113	100%	立 (립)
m	m (ㅁ)	105	98.13%	買 (매)
	p (ㅍ)	1	0.93%	剝 (박)
	ts ^h (ㅌ)	1	0.93%	秒 (초)
n	n (ㄴ)	28	96.55%	能 (능)
	ts (ㄷ)	1	3.45%	鳥 (조)
ŋ	∅	42	93.33%	危 (위)
	k (ㄱ)	3	6.67%	硬 (경)
j	∅ (ㅇ)	212	92.58%	入 (입)
	h (ㅎ)	16	6.99%	現 (현)
	k (ㄱ)	1	0.44%	丘 (구)
w	h (ㅎ)	37	50.00%	話 (화)
	w	35	47.30%	位 (위)
	k (ㄱ)	2	2.70%	壞 (괴)

Cantonese Onset	Korean Onset	No. of char.	Percentage	Example
f	p (ㅍ)	72	64.86%	費 (비)
	h (ㅎ)	21	18.92%	化 (화)
	k (ㄱ)	8	7.21%	科 (과)
	p ^h (ㅍ)	8	7.21%	風 (풍)
	k ^h (ㅋ)	1	0.90%	快 (쾌)
	m (ㅁ)	1	0.90%	撫 (무)
h	h (ㅎ)	84	63.16%	下 (하)
	k (ㄱ)	46	34.59%	起 (기)
	∅ (ㅇ)	2	1.50%	熊 (웅)
	m (ㅁ)	1	0.75%	耗 (모)
s	s (ㅅ)	218	96.46%	西 (서)
	ts (ㄷ)	4	1.77%	適 (적)
	ts ^h (ㅌ)	1	0.44%	縮 (축)
	ss (ㅆ)	2	0.88%	氏 (씨)
	h (ㅎ)	1	0.44%	恤 (恤)

Onset Correspondence between Cantonese and Korean

- One to one major correspondence relationship

Cantonese Onset	Korean Onset	No. of char.	Percentage	Example
k	k (ㄱ)	171	95.53%	家 (가)
k ^h	k (ㄱ)	45	93.75%	期 (기)
k ^w	k (ㄱ)	28	100.00%	廣 (광)
k ^{wh}	k (ㄱ)	13	86.67%	誇 (과)
ŋ	∅	42	93.33%	危 (위)
j	∅ (ㅇ)	212	92.58%	入 (입)
m	m (ㅁ)	105	98.13%	買 (매)
l	l (ㄹ)	113	100%	立 (립)
n	n (ㄴ)	28	96.55%	能 (능)
s	s (ㅅ)	218	96.46%	西 (서)

All the **velar** onsets in Cantonese (/k/, /k^h/, /k^w/ and /k^{wh}/) correspond to /k/ in Korean.

Most of the **sonorant** onsets have a one to one correspondence relationship.

The importance of distinguishing **/l/-/n/ contrast** in Cantonese!
Cantonese [l~] → Korean [l~]
 Example: 立、李、力、來、利、理、零
Cantonese [n~] → Korean [n~]
 Example: 年、女、暖、內、末、南、男

Onset Correspondence between Cantonese and Korean

- One to two or more major correspondences

Cantonese Onset	Korean Onset	No. of char.	Percentage	Example
p	p (ㅍ)	60	61.86%	博 (박)
	p ^h (ㅍ ^h)	37	38.14%	包 (포)
p ^h	p (ㅍ)	23	51.11%	拍 (박)
	p ^h (ㅍ ^h)	22	48.89%	破 (파)
t	t (ㄷ)	57	57.00%	道 (도)
	ts (ㄷ)	29	29.00%	低 (저)
t ^h	t (ㄷ)	31	39.24%	頭 (두)
	t ^h (ㄷ ^h)	27	34.18%	透 (투)
ts	ts (ㄷ)	171	68.40%	正 (정)
	ts ^h (ㄷ ^h)	49	19.60%	總 (총)
ts ^h	ts ^h (ㄷ ^h)	84	51.22%	層 (층)
	ts (ㄷ)	46	28.05%	財 (재)
	s (ㅅ)	30	18.29%	查 (사)
w	h (ㅎ)	37	50.00%	話 (화)
	w	35	47.30%	位 (위)
f	p (ㅍ)	72	64.86%	費 (비)
	h (ㅎ)	21	18.92%	化 (화)
h	h (ㅎ)	84	63.16%	下 (하)
	k (ㄱ)	46	34.59%	起 (기)

The two major correspondences are related to the aspiration contrasts in plosive onsets (except Cantonese /t/).

The minor correspondence rule in Cantonese /t/ is related to the stop-affricate contrast.

The 3 correspondence rules in Cantonese /ts^h/ is related to both the aspiration contrast and the affricate-fricative contrast.

Since Korean does not have the phoneme /f/, the major correspondence to Cantonese /f/ is /p/, which is the most similar phoneme to /f/.

Major Rhyme and Coda Correspondence between Cantonese and Korean (I)

Cantonese Coda	Korean Coda	No. of char.	Percentage	Example
~p	~p (ㅍ)	41	100.00%	十 (십)
~t (include, ~at, ~et, ~œt, ~it, ~ɔt, ~ut, ~yt)	~l (ㄹ) ~p (ㅍ) ~ŋ (ㅇ) ~∅	100 6 2 1	91.74% 5.50% 1.83% 0.92%	八 (팔) 捷 (첩) 骨 (골) 刷 (쇄)
~k (include, ~ak, ~æk, ~œk, ~ik, ~ɔk, ~uk)	~k (ㄱ) ~l (ㄹ) ~n (ㄴ) ~p (ㅍ) ~∅	229 3 2 1 1	97.03% 1.27% 0.85% 0.42% 0.42%	百 (백) 穀 (골) 哭 (곤) 逼 (핍) 值 (치)
~m (include ~am, ~em, ~im)	~m (ㅁ) ~n (ㄴ)	88 1	98.88% 1.12%	三 (삼) 禪 (선)
~n (include ~an, ~en, ~un, ~yn)	~n (ㄴ) ~m (ㅁ) ~ŋ (ㅇ)	342 4 2	97.71% 1.14% 0.57%	年 (년) 品 (품) 坤 (공)
~ŋ (include ~aŋ, eŋ, ɛŋ)	~ŋ (ㅇ) ~n (ㄴ)	362 2	99.45% 0.55%	中 (중) 認 (인)

Cantonese Rhyme	Korean Rhyme	No. of char.	Percentage	Example
ŋ (∅)	~o (오)	6	100.00%	五 (오)
~a	~a (아) ~æ (애)	39 1	97.50% 2.50%	打 (타) 掛 (괘)
~ai	~æ (애) ~e (에) ~a (아)	24 10 4	63.16% 26.32% 10.53%	大 (대) 界 (계) 街 (가)
~au	~o (오)	19	100.00%	考 (고)
~ei	~e (에) ~i (이) ~ɔ (어) ~u (우) ~æ (애) ~ui (위)	52 25 12 9 1 1	52.00% 25.00% 12.00% 9.00% 1.00% 1.00%	第 (제) 費 (비) 低 (저) 龜 (구) 奚 (해) 毅 (의)
~eu	~u (우) ~i (이) ~o (오)	90 2 1	96.77% 2.15% 1.08%	球 (구) 就 (취) 某 (모)

Major Rhyme and Coda Correspondence between Cantonese and Korean (II)

Cantonese Rhyme	Korean Rhyme	No. of char.	Percentage	Example
~ei	~i (이)	60	88.24%	美 (미)
	~ui (의)	5	7.35%	希 (희)
	~a (아)	2	2.94%	四 (사)
	~e (에)	1	1.47%	憩 (계)
~ε	~a (아)	16	88.89%	謝 (사)
	~i (이)	1	5.56%	騎 (기)
	~ɔ (어)	1	5.56%	車 (거)
~i	~i (이)	47	48.45%	時 (시)
	~a (아)	37	38.14%	事 (사)
	~ui (의)	13	13.40%	衣 (의)
~iu	~o (오)	47	97.92%	紹 (소)
	~u (우)	1	2.08%	叫 (규)
~ou	~o (오)	85	84.16%	努 (노)
	~u (우)	12	11.88%	部 (부)
	~e (외)	3	2.97%	腦 (뇌)
	~ɔ (어)	1	0.99%	廬 (려)

Cantonese Rhyme	Korean Rhyme	No. of char.	Percentage	Example
~ɔ	~a (아)	34	75.56%	羅 (라)
	~o (오)	9	20.00%	助 (조)
	~æ (애)	2	4.44%	個 (개)
~ɔi	~æ (애)	35	97.22%	來 (래)
	~e (외)	1	2.78%	外 (외)
~œy	~u (우)	24	37.50%	區 (구)
	~ɔ (어)	20	31.25%	女 (녀)
	~e (에)	11	17.19%	歲 (세)
	~i (이)	7	10.94%	取 (취)
	~æ (애)	2	3.13%	隊 (대)
~u	~o (오)	23	57.50%	古 (고)
	~u (우)	17	42.50%	夫 (부)
~ui	~æ (애)	14	73.68%	每 (매)
	~e (외)	5	26.32%	回 (회)
~y	~ɔ (어)	24	46.15%	書 (서)
	~u (우)	24	46.15%	宇 (우)
	~e (에)	3	5.77%	諸 (제)
	~o (오)	1	1.92%	娛 (오)

Coda Correspondence between Cantonese and Korean

- All the codas have a one to one major correspondence relationship.

Cantonese Coda	Korean Coda	No. of char.	Percentage	Example
~p	~p (ㅂ)	41	100.00%	十 (십)、入(입)、吸(흡)、習(습)
~t	~l (ㄹ)	100	91.74%	八 (팔)、一(일)、七(칠)、術(술)
~k	~k (ㄱ)	229	97.03%	百 (백)、國(국)、格(각)、學(학)
~m	~m (ㅁ)	88	98.88%	三 (삼)、男(남)、音(음)、驗(험)
~n	~n (ㄴ)	342	97.71%	年 (년)、半(반)、段(단)、真(진)
~ŋ	~ŋ (ㅇ)	362	99.45%	中(중)、定(정)、等(등)、能(능)

Except for **Cantonese [-t] → Korean [-l]**, all the other Korean codas are the same as their Cantonese codas. Same observation as in Kang and Simmons (2001).

Rhyme Correspondence between Cantonese and Korean

- One to one major correspondence relationship

Cantonese Rhyme	Korean Rhyme	No. of char.	Percentage	Example
ŋ (Ø)	~o (오)	6	100.00%	五(오)、午(오)、誤(오)、悟(오)
~a	~a (아)	39	97.50%	打(타)、沙(사)、家(가)、他(타)
~au	~o (오)	19	100.00%	考(고)、教(교)、貌(모)、抄(초)
~əu	~u (우)	90	96.77%	球(구)、宙(주)、九(구)、口(구)
~ei	~i (이)	60	88.24%	美(미)、基(기)、氣(기)、李(리)
~ɛ	~a (아)	16	88.89%	謝(사)、社(사)、野(야)、者(자)
~iu	~o (오)	47	97.92%	小(소)、紹(소)、標(표)、要(요)
~ou	~o (오)	85	84.16%	努(노)、母(모)、普(보)、圖(도)
~ɔi	~æ (애)	35	97.22%	來(래)、開(개)、內(내)、海(해)

Rhyme Correspondence between Cantonese and Korean

- One to two or more correspondence relationships

Cantonese Rhyme	Korean Rhyme	No. of char.	Percentage	Example
~ai	~æ (애)	24	63.16%	大 (대)
	~e (에)	10	26.32%	界 (계)
~ei	~e (에)	52	52.00%	第 (제)
	~i (이)	25	25.00%	費 (비)
~i	~i (이)	47	48.45%	時 (시)
	~a (아)	37	38.14%	事 (사)
~ɔ	~a (아)	34	75.56%	羅 (라)
	~o (오)	9	20.00%	助 (조)
~œy	~u (우)	24	37.50%	區 (구)
	~ɔ (어)	20	31.25%	女 (녀)
	~e (에)	11	17.19%	歲 (세)
~u	~o (오)	23	57.50%	古 (고)
	~u (우)	17	42.50%	夫 (부)
~ui	~æ (애)	14	73.68%	每 (매)
	~e (외)	5	26.32%	回 (회)
~y	~ɔ (어)	24	46.15%	書 (서)
	~u (우)	24	46.15%	宇 (우)

Korean Vocabulary Learning

● Nouns

- 學生 [hɔk san] → 학생 [hak sæŋ]
- 韓國 [hɔn kʷɔk] → 한국 [han kuk]
- 美國 [mei kʷɔk] → 미국 [mi kuk]

● Verbs

- 退勤 [tʰɔy kʰɛn] → 퇴근하다 [tʰwe kin]
- 入學 [jɛp hɔk] → 입학하다 [ip hak]

● Adjectives

- 幸福 [hɛŋ fuk] → 행복하다 [hæŋ bok]
- 清新 [tsʰiŋ sɛn] → 청신하다 [tsʰoŋ sin]

● Adverbs

- 特히 [tek] → 특히 [tʰik]

Korean Passage Reading

- 야외의 공기는 청신하다.
- 野外의 空氣는 清新하다.

- 나의 취미는 미술이다.
- 나의 趣味는 美術이다.

- 박선생은 고등학교의 선생이다.
- 朴先生은 高等學校의 先生이다.

- 남녀학생들이 배구를 한다.
- 男女學生들이 排球를 한다.

The Implicit Association between the two pronunciations through the use of corresponding rules

- There are corresponding rules between Cantonese and Japanese in the pronunciation of *onyomi kanji* (音讀漢字) words. (Lee, 1992)

Cantonese Coda		Japanese Syllable	Percentage	Kanji	Cantonese Pronunciation	Japanese Pronunciation
~p	→	~う (long vowel)	75.9%	採集 (さいし <u>ゅ</u> う)	ts ^h ɔi tsap	saish <u>uu</u>
~t	→	~つ (tsu)	78.6%	印刷 (いん <u>さ</u> つ)	jen cat	ins <u>atsu</u>
~k	→	~く (ku)	77.6%	握手 (あ <u>く</u> しゅ)	ak sɛu	aku <u>shu</u>
~m	→	~ん (n)	97.7%	増減 (ぞうげ <u>ん</u>)	tsɛŋ kam	zougen <u>n</u>
~n	→	~ん (n)	99.1%	旋律 (せん <u>り</u> つ)	syn lək	sen <u>ritsu</u>
~ŋ	→	~う (long vowel)	75.0%	急増 (き <u>ゅ</u> うぞう)	kəp tsəŋ	kyuuzou <u>u</u>

- Cantonese speakers can make implicit association between the Cantonese and Japanese pronunciations. (Chu, 2007)

A Questionnaire Study (Chu, 2007)

- Please choose the correct pronunciation of the following Japanese vocabularies. If you haven't learn the vocabularies before, please circle the vocabulary, read through all the 4 choices and choose the one that you think is the most probable answer.

- Long vowel

- ku

- n

- tsu

- | | | | | |
|------|----------|----------|----------|----------|
| 1.採集 | a. さいしゅう | b. さいしゆく | c. さいしゅん | d. さいしゅつ |
| 2.印刷 | a. いんさあ | b. いんさく | c. いんさん | d. いんさつ |
| 3.並立 | a. へいりつ | b. へくりつ | c. へんりつ | d. へつりつ |
| 4.握手 | a. ああしゅ | b. あくしゅ | c. あんしゅ | d. あつしゅ |

Cantonese learners of Japanese of different levels (beginner, intermediate and advanced) participated in this study. They were also tested on their Cantonese pronunciations.

Results of the Study (Overall)

Japanese Pronunciation

Cantonese Pronunciation

Cantonese coda	~ long vowel	~ < (~ /ku/)	~ ㄏ (~ /n/)	~ ㄗ (~ /tsu/)	~ /p/	~ /t/	~ /k/	~ /m/	~ /n/	~ /ŋ/	~ others
/p/	74%	14%	3%	10%	74%	5%	5%	9%	1%	4%	3%
/t/	9%	19%	5%	67%	2%	56%	35%	0%	3%	2%	2%
/k/	2%	74%	5%	19%	4%	16%	72%	0%	2%	3%	3%
/m/	10%	8%	78%	4%	2%	2%	2%	78%	12%	3%	1%
/n/	15%	6%	75%	4%	1%	4%	1%	2%	76%	14%	2%
/ŋ/	59%	10%	27%	4%	2%	2%	3%	0%	31%	61%	2%

Many students can guess the correct pronunciations for the words that they haven't learnt before. Most of them mentioned that they did not use any rules or strategies in guessing the answer.

Negative Transfer from Cantonese into Japanese

/t/-/k/ contrast in the coda position (突 /tɛt/ vs. 特 /tɛk/)

/n/-/ŋ/ contrast in the coda position (文 /mɛn/ vs. 盟 /mɛŋ/)

Conclusions and Future Research

- Native Cantonese speakers have advantage in learning Korean vocabularies which use Sino-Korean characters.
- The importance of learning the “prescribed pronunciation” in learning foreign languages in order to prevent negative transfer from the mother language.
- Replicate the Japanese study using Korean vocabularies

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