Korean consonants, IPA

	Bilabial		Alveolar		Retro- flex		Alveolo- palatal		Velar		Glottal	
Plosive	р	[b]	t	[d]					k	[g]		
Lightly asp. plosive	p ^h		t ^h						k ^h			
Heavily asp. plosive	p ^{hh}		t ^{hh}						k ^{hh}			
Affricate			[ts]	[dz]			te	[d͡ʑ]				
Lightly asp. affricate			[ts ^h]				(t̃¢ ^h					
Heavily asp. affricate			[ts ^{hh}]				Tehh					
Fricative	[φ]	[β]	S				[ɕ, ç]	Ü	[x]	[γ]	h	[h]
Lightly asp. fricative			S ^h									
Nasal		m		n				[ɲ]		ŋ		
Тар				[ɾ]		[r]						
Approximant		W						j		щ		
Lateral approximant				-1		[[]		[\lambda]				

- Where symbols appear in pairs, the one on the right represents a voiced consonant.
- Where symbols appear singly, they are placed on the left within their column if they represent a voiceless consonant, and on the right if they represent voiced.
- Symbols enclosed in brackets represent nonphonemic consonants.
- Blacked-out cells indicate phones judged to be impossible.
- The [w] in the bilabial column with the light blue coloring of the velar column represents a **velarized** bilabial approximant.
- The non-phonemic bilabial, palatal, velar, and glottal fricatives are all allophones of /h/.
- All taps and lateral approximants are allophones of /I/.
- The alveolo-palatal row contains two palatal phones: [ç] and [j].
- The non-phonemic alveolo-palatal fricatives are allophones of the corresponding alveolar fricatives occurring before front vowels.

- The unaspirated stops, with VOT of less than 20 ms, are called "tense" sounds.
- The lightly aspirated stops, with a VOT of 20-80 ms, are called "lax" sounds.
- The non-phonemic voiced stops are allophones of the lax stops and affricates.
- The heavily aspirated stops have a VOT of 80 ms or more
- A similar situation holds with the unaspirated, lightly aspirated, and heavily aspirated affricates, but with about 20 ms more VOT across the board.
- The fricative [s] corresponds only to one phoneme, a "tense" one with a duration of ~200 ms.
- The lightly aspirated fricative [sh] corresponds only to one phoneme, a "lax" one with a shorter duration of ~150 ms, of which some may consist of perceptibly distinct frication and aspiration phases.
- The non-phonemic alveolar affricates are allophones of the corresponding alveolo-palatal affricates occurring before back vowels.

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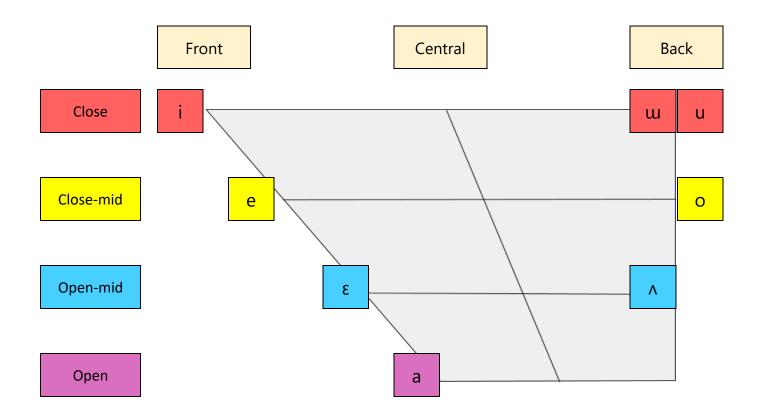
Korean consonants, Hangul

	Bilabial		Alveolar		Retro- flex		Alveolo- palatal		Velar		Glottal	
Plosive	HH	(日)	CC	(□)					רר	(¬)		
Lightly asp. plosive	Н		П						Γ			
Heavily asp. plosive	п		Ш						П			
Affricate			(スス)	(天)			ᄍ	(天)				
Lightly asp. affricate			(天)				天					
Heavily asp. affricate			(大)				大					
Fricative	(ㅎ)	(ㅎ)	Ж				(씨,ㅎ)	(ㅎ)	(ㅎ)	(ㅎ)	승	(ㅎ)
Lightly asp. fricative			人									
Nasal		_		∟				(∟)		0		
Тар				(⊒)		(己)						
Approximant		Ø						Ø		Ø		
Lateral approximant				己		(己)		(己)				

• Symbols enclosed in parentheses represent non-phonemic consonants.



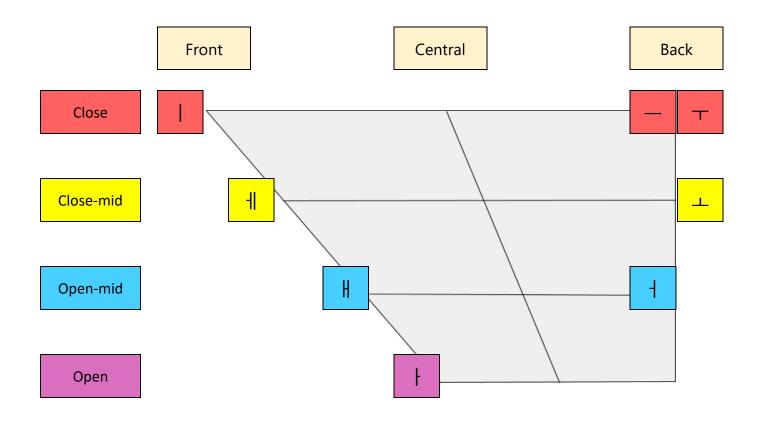
Korean vowels, IPA



- Where symbols appear in pairs, the one to the right represents a rounded vowel.
- Of the symbols appearing singly, all are unrounded except for [o].
- Symbols appearing singly are unrounded.



Korean vowels, Hangul



- Where symbols appear in pairs, the one to the right represents a rounded yowel.
- Symbols appearing singly are unrounded.



References

I am grateful to several of my students who have allowed me to consult them in creating these charts: Pae Gilsu, Kang Jiyoon, Kim Sunghwan.

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