

Class 5

Phonology Exercises

9/26/19

Phonology exercises

- In each of the following data sets, the sounds in questions are *allophones of a single phoneme*.
 - Write the phonological rules that derive the set of allophones.
 - Identify which allophone we should choose to be the phoneme.
- ★ When doing phonology problems like this, you want to list out all the environments/contexts that each of the relevant sounds appears in, and then make generalizations over those environments.
- Things about environments to look for: C's and V's, word boundaries (#_ & _#), phonological features

1 Spanish

- Consider the sounds [s] and [z] in the following data from Spanish.

	1. [izla] 'island'	8. [rasko] 'I scratch'
	2. [riezgo] 'risk'	9. [resto] 'remainder'
	3. [eski] 'ski'	10. [fuersa] 'force'
(1)	4. [siŋko] 'five'	11. [vamos] 'we go'
	5. [dezde] 'since'	12. [mizmo] 'same'
	6. [espalda] 'back'	13. [fiskal] 'fiscal'
	7. [hablas] 'you speak'	14. [sabes] 'you know'

2 German

- Consider the phones [g] and [ɣ] the following data from German.
 - [ɣ] is a voiced velar fricative.
 - [ç] is a voiceless palatal fricative.
 - [ø] is a mid front round tense vowel.

	1. [vaɣən] 'car'	10. [zigən] 'conquer'
	2. [taɣə] 'days'	11. [børg] 'mountain'
	3. [naɣən] 'nibble'	12. [føɣlam] 'bird'
	4. [taʊnøçts] 'idler'	13. [møgən] 'can'
(2)	5. [fuɣən] 'fit together'	14. [regən] 'rain'
	6. [aʊɣən] 'eyes'	15. [gɪngən] 'went'
	7. [bøɣən] 'arch'	16. [gəngəs] 'Ganges'
	8. [zøɣən] 'crystallize'	17. [ʊngərn] 'Hungary'
	9. [gəfloyɣən] 'flown'	18. [zɪɣnal] 'signal'
		19. [grøk] 'grog'

3 Japanese

- Consider the sounds [ç], [h], and [ɸ] in the following data from Japanese.
 - [ç] is a voiceless palatal fricative.
 - [ɸ] is a voiceless bilabial fricative.

1.	[joho]	'forecast'	9.	[toɸu]	'tofu'
2.	[ɸuku]	'clothes'	10.	[hoɸi]	'star'
3.	[çito]	'person'	11.	[koçï]	'coffee'
(3) 4.	[hen]	'strange'	12.	[hako]	'box'
5.	[tehon]	'model'	13.	[ɸukai]	'deep'
6.	[saiɸu]	'wallet'	14.	[kuçï]	'waste'
7.	[ɸihai]	'control'	15.	[eɸu]	'letter F'
8.	[kiçin]	'grace'			
