

Tutorial 6

Natural classes, phonemes, and allophones

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Learning Outcomes

By the end of this tutorial, you should be able to:

- Group sounds into natural classes
- Conduct a phonemic analysis

Natural classes

Consider the consonant inventory for Morley Stoney dialect, a Siouan language spoken by a few thousand people in Alberta, Canada. It has the following consonant inventory shown below.

p	b	t	d		k	g		ħ	ʕ	h
		s	z	ʈ	ɖ					
				tʃ	dʒ					
	m		n							
	w					j				

1. List the consonants that are part of the natural classes below. Make sure to put the consonant sounds in square brackets. An example is provided for you.

Natural class	Stoney consonants
pharyngeal sounds	{[ħ], [ʕ]}
voiced sounds	
voiceless sounds	
voiced alveolar sounds	
bilabial sounds	

2. **Challenge (on your own):** Consider the vowel inventory of a hypothetical language called Darbi. Circle at least 5 natural classes and describe the property (or properties) that they share. An example is provided for you.

high front vowels	i	y	ɯ	u
	e	ø		o
		œ	ʌ	ɔ
	æ		a	

