

Intro to Linguistics – HW 1 – Phonology

Consider the following German words:

[bʊx]	<i>Buch</i> ‘book’	[kʊxən]	<i>Kuchen</i> ‘cake’
[miç]	<i>mich</i> ‘me’	[milç]	<i>Milch</i> ‘milk’
[kɔxən]	<i>kochen</i> ‘to cook’	[fɛçər]	<i>Fächer</i> ‘fan’
[bax]	<i>Bach</i> ‘brook’	[naxt]	<i>Nacht</i> ‘night’
[medçən]	<i>Mädchen</i> ‘girl’	[axt]	<i>acht</i> ‘eight’
[lɔx]	<i>Loch</i> ‘hole’	[ho:x]	<i>hoch</i> ‘high’
[laxən]	<i>lachen</i> ‘laugh’	[ʃprɛçən]	<i>sprechen</i> ‘speak’
[fluxt]	<i>flucht</i> ‘flight’	[ɛlç]	<i>Elch</i> ‘elk’
[ʃtɔrç]	<i>Storch</i> ‘stork’	[by:çr]	<i>Bücher</i> ‘books’
[furçt]	<i>Furcht</i> ‘fear’	[mançmal]	<i>manchmal</i> ‘sometimes’
[brʊx]	<i>Bruch</i> ‘break’		

Notes:

- Assume I have provided all relevant data.
- The data are slightly simplified.
- [ɑ] ≠ [a], use the IPA chart to properly interpret all the symbols
- Recall that phonology is concerned with sounds of language; spelling is irrelevant.

Answer the following questions:

1. Are [ç] and [x] allophones of the same phoneme? Why?
2. If yes, write a rule realizing that phoneme. If there are alternative formulations, write the simplest one. First, express the rule in words, then use the formalism we used in class.