Morphophonemic analysis

Morphophonemics:



Analysis and classification of the *phonological* factors which affect the pronunciation of morphemes or, correspondingly, the *morphological* factors which affect the appearance of phonemes.

Allomorph: A predictable variant form of a morpheme (e.g., the English plural morpheme has three allomorphs).

tops cuffs [-s] thoughts cobs pins wings teas [-Z]doves lids calls hisses judges [-əz] wishes crutches

Which allomorphs should be selected as the *underlying form*?

[-s]: The stem ends in a consonant that is

never:

[-z]: The stem ends in a consonant that is

never:

or, the stem ends in a vowel.

[-əz]: The stem ends in a consonant that is

Underlying representation: /-z/

Rules:

1. ə-Epenthesis: Insert a [ə] between two adjacent sibilants in the same word.

$$\emptyset \rightarrow \partial / \text{(+coronal +strident)} - + z$$

2. Devoicing: A voiced obstruent becomes voiceless after a voiceless obstruent.

$$z \rightarrow [-\text{voice}] / \begin{pmatrix} -\text{sonorant} \\ -\text{voice} \end{pmatrix} + \underline{\qquad}$$

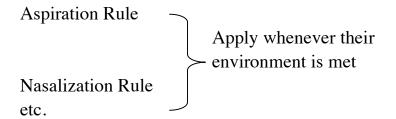
Derivations:

UR
$$/m = y + z / b = g + z / wi + z /$$

- 1. ə-Epenthesis: wıʃəz
- 2. Devoicing taps -

PR [taps] [bægz] $[wi \int \partial z]$

The application of these rules is determined *both* by morphology and phonology.



Note: The a -Epenthesis Rule must be applied before the Devoicing Rule – why?

The rules that derive English plural allomorphs apply only to the plural morpheme:

$$race$$
 [rejs] $ray + Pl$ [rejz]

$$rice$$
 [rajs] $rye + Pl$ [rajz]

[z] is *not* determined by the phonological context only, because in an *identical environment* [s] occurs.