## Introduction to Phonological Analysis

LING 232A/632A, Fall 2013 Tamás Biró

## **Topic: Rule ordering**

1. Canadian	raising
(1)	

/ai/ Raising ai  $\rightarrow$  Ai / \_\_\_\_ [-syllabic \_-voice]

/a1/ is realized as  $[\Lambda 1]$  when it precedes a voiceless consonant.

As a result of this rule, we find the following distribution of data.

	rig hi lif	le /1a1fə	[јліt] »/ [hліkð] [lліf]	tribe ride tiger live rival rise rye ion	/tɪaɪb/ /ɪaɪd/ /taɪgə/ /laɪv/ /ɪaɪvəl/ /ɪaɪz/ /ɪaɪ/ /aɪɑn/	
(2) Tapping (revised) $ \begin{bmatrix} +anterior \\ -continuant \end{bmatrix} \rightarrow \mathfrak{c} / [-consonantal] \_ \begin{bmatrix} +syllabic \\ -stress \end{bmatrix} $						
Ada ladder reading edify sediment adolescent	Phonemic /'eɪdə/ /lædə/ /'ɪidɪŋ/ /'ɛdɪˌfaɪ/ /'sɛdɪmənt/ /ˌædə'lɛsənt/	['sɛrımən [ˌærə'lɛsə	nt] Edgar pad	/ə'dɛj /'kæn /'hıld /'agd /'ɛdg	n/ [ pt/ [ ndən/ [ lə/ [ ən/ [ ə/ [	Phonetic 'dæn] ə'dɛpt] 'kæmdən] 'hɪldə] 'agdən] 'ɛdgə]

/aɪ/ Raising	precedes Tap	ping		
write	writing	ride	riding	
/'ıaıt/	/'lait-in/	/'1a1d/	/'1a1d-1ŋ/	underlying forms
'JAIt	JAItin			/a1/ Raising
_	'JAILU	_	'.tairiŋ	Tapping
['jait]	['1AIC-Iŋ]	['1a1d]	['ıaırıŋ]	surface forms

## Tapping precedes /a1/ Raising

write /'1a1t/	writing /'1a1t-1ŋ/	ride /'.1a1d/	riding /'ɪaɪd-ɪŋ/	underlying forms
	'iairiŋ	_	'aarrin	Tapping
'init	<u> </u>		—	/ai/ Raising
['iait]	['ıaır-ıŋ]	['ıaıd]	[ˈɪaɪɾɪŋ]	surface forms

## 2. Rule ordering: questions and techniques

- How to justify underlying form of a morpheme? Not necessarily same as *citation form*.
- <u>Feeding</u>: first rule creates the environment that makes second rule applicable.
- <u>Bleeding</u>: first rule destroys the environment that would make second rule applicable.
- <u>Counter-feeding</u> / <u>counter-bleeding</u>: if the two rules were applied in the reversed order, then we had a case of feeding / bleeding.
- <u>Hasse-diagram</u>: to visualize a *partial order*.

**Reading:** Kenstowicz, Chapters 3 and 5.

Homework (due: October 22): Hayes, page 156, exercises 1, 2 and 3.