Psych 56L/ Ling 51: Acquisition of Language

2/5/2013

Midterm Review

Test Format

Multiple Choice:

Totally normal, choose from 4 options

True/False:

Also choose from 4 options

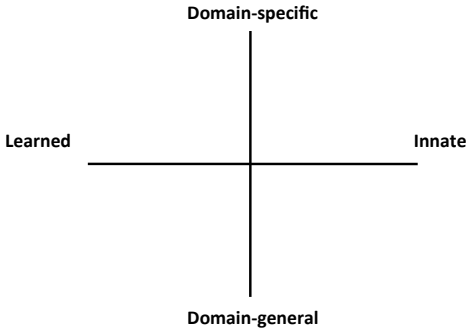
First: Choose True or False

Second: Choose the option with the correct reasoning

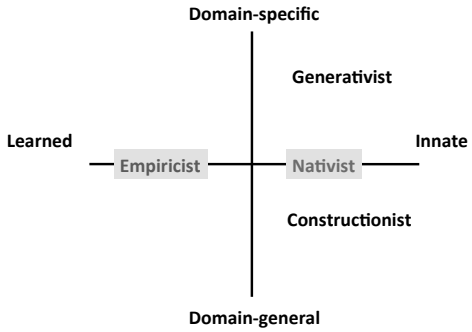
True/False Sample Question

1) 1 + 2 = 3
   a) True, and we can check because 3 – 2 = 1
   b) True, any two odd and even numbers sum to 3
   c) False, 1 + 2 = 4
   d) False, 1 – 2 = 3

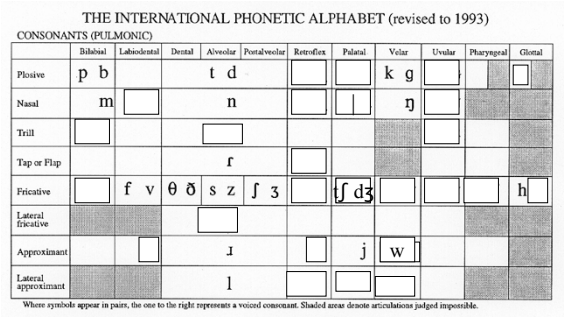
Viewpoints on Development



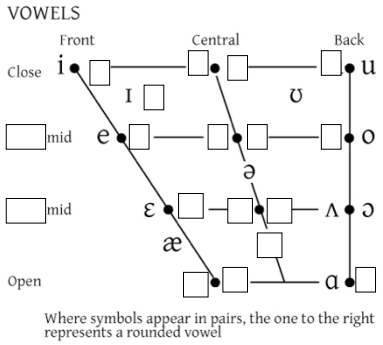
Viewpoints on Development



IPA: Consonants



IPA: Vowels



Phonological Processes

Deletion Processes

Final consonant deletion	/kæt/ -> /kæ/
Consonant cluster deletion	/bræt/ -> /bæt/
Unstressed syllable deletion	/bənænə/ -> /nænə/

Phonological Processes

Substitution Processes

Stopping	/ðæt/ -> /dæt/
Gliding	/ræbɪt/ -> /wæbɪt/
Denasalization	/spun/ -> /spud/
Fronting	/ʃɪp/ -> /sɪp/
Assimilation	/dagi/ -> /gagi/

Combining Processes

Processes can occur at the same time:

"giraffe" /dʒəræf/ -> /ræ/

1) /dʒəræf/ -> /ræf/	Unstressed Syllable Deletion
2) /ræf/ -> /ræ/	Final Consonant Deletion

Combining Processes

/faɪrtrʊk/ -> /tairpʊ/

1) /faɪrtrʊk/ -> /faɪrtʊk/	Consonant Cluster Deletion
2) /faɪrtʊk/ -> /faɪrtʊ/	Final Consonant Deletion
3) /faɪrtʊ/ -> /fairpʊ/	Fronting
4) /faɪrpʊ/ -> /paɪrpʊ/	Assimilation (Cons. Harmony) (/f/ takes +stop,+bilabial from /p/)

Research Methods

Diary Study
- Pro: Know when a child produces particular utterances
- Con: Doesn't say anything about "typical" children

MacArthur-Bates Communicative Development Inventory(MCDI)
- Pro: Gives norms for when children know a word
- Con: Says nothing about a particular child

Mean-Length Utterance (MLU)
- Pro: Tells you how complex a child's utterances are
- Con: Doesn't say anything about word-level knowledge

Research Methods

Computational Modeling
- Pro: Can identify good learning strategies
- Con: Says nothing about what children know

Peabody Picture Vocabulary Test (PPVT)
- Pro: Know if a child understands a particular word
- Con: Costly to administer

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TEXT

Transitional Probability

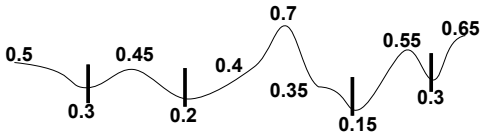
TP(AB) = P(AB|A) = # of times you saw AB / # of times you saw A

ka/ko/si
ko/li/ja
ja/ko
li/je/vo

TP(ko/si) = # of times ko/si / # of times ko

TP(ja/vo) = # of times ja/vo / # of times ja

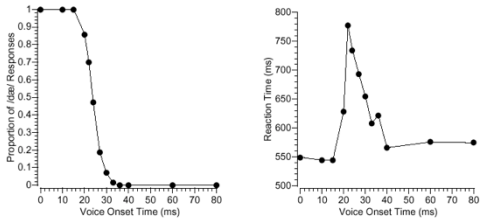
TP Minima



TP can be though of like a tide

Every time the TP is at “low tide” we put a boundary

Sound Identification



Sound Discrimination

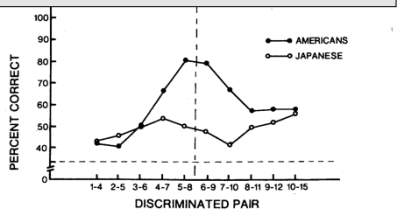


Figure 12.2. Test of the categorical perception of /ra/ and /la/ by American and Japanese adults. American listeners show the characteristic peak in discrimination at the phonetic boundary; Japanese listeners do not. (From Miyawaki et al., 1975.)