

SAFFRAN, ASLIN, & NEWPORT (96) SCIENCE

22 DEC 20

FRAMING: EXPERIENCE DEPENDENT VS INDEPENDENT LANGUAGE LEARNING
 Lexicon, phonology "more complicated" aspects \Rightarrow INNATENESS

PRESENT LEARNING TASK: SPEECH STREAM SEGMENTATION

- no prosodic or other cues to boundaries
 - variable acoustic cues across languages
- \Rightarrow What about statistical regularities? \equiv

TRANSITIONAL PROBABILITY (BETWEEN SYLLABLES):
 Higher within than between words

pre-tty-ba-by
 HIGH HIGH LOW

EXP 1

N=24 8;0

familiarization - pref LT

synthesized, randomized 4 trisyll nonsense words (2 min)

familiar vs. novel

"word" "non-word" (novel syll combo)

longer LT for novel

EXP 2

N=24 8;0

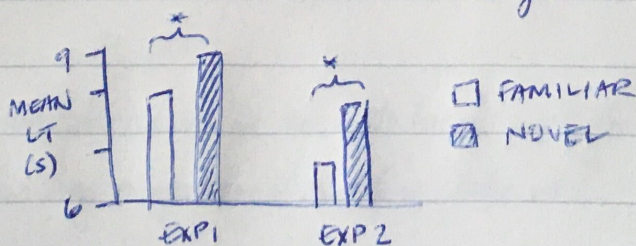
familiarization - pref LT

← "

familiar vs. novel

"word" "part-word" (w.s₃n₂s₁-2)

longer LT for novel



💡 INFANTS LEARN RAPIDLY TO SEGMENT SPEECH USING TP CUES, } EXPERIENCE
 DISTINGUISHING EVEN BETWEEN TWO TYPES OF TRISYLLABIC } AFTER
 SEQUENCES THEY HAVE BEEN EXPOSED TO ... IN ONLY 2 MIN! } ALL?

💡 LG SPECIFIC? SO CONCENTRATED INPUT? EXTENSIBILITY? EXPLAN. POWER?