

Examples of utterance (Bickerton, 1990)

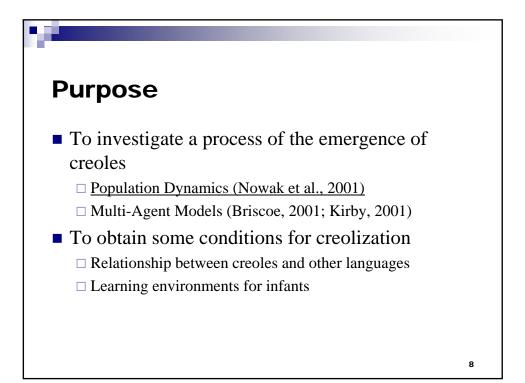
Hawaiian Pidgin:

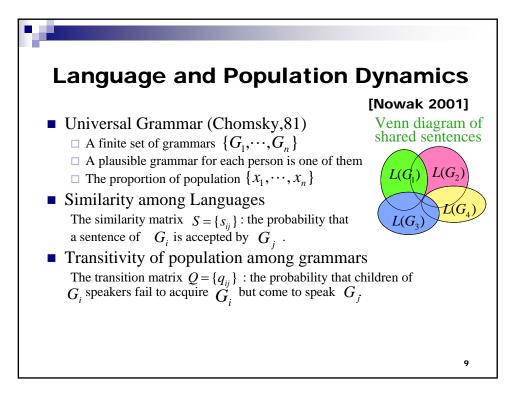
Ifu laik meiki, mo beta *make* time, mani no kaen *hapai*. If like make, more better die time, money no can carry. If you want to build (a temple), you should do it just before you die -- you can't take it with you!

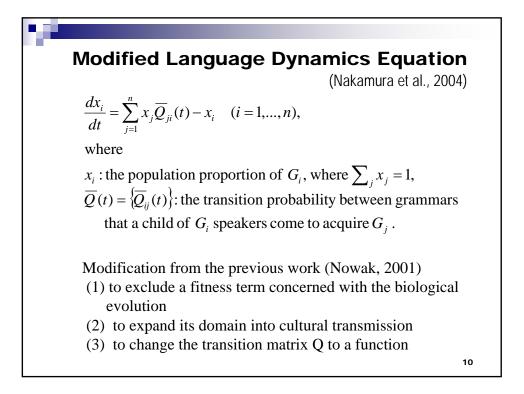
Hawaiian Creole:

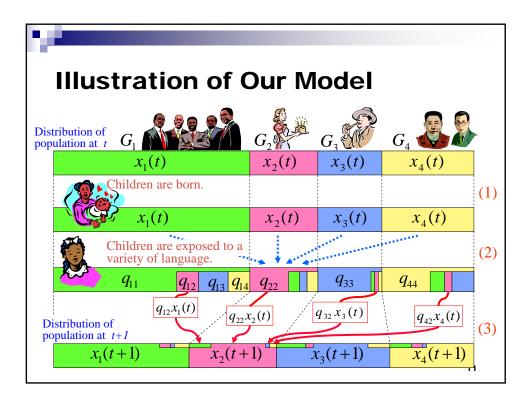
They wen go up there early in the morning e go plant. They went up there early in the morning in order to plant (crops).

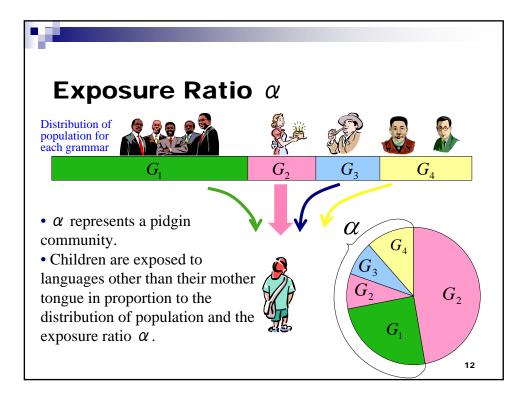
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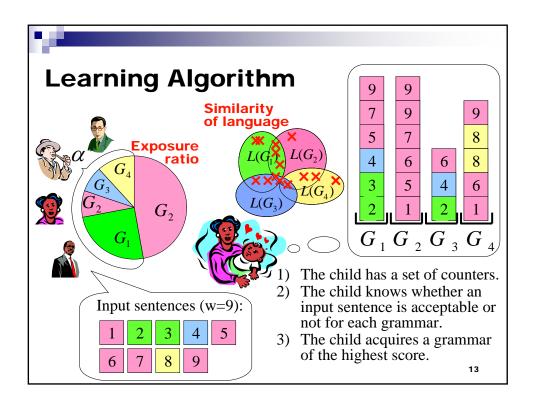


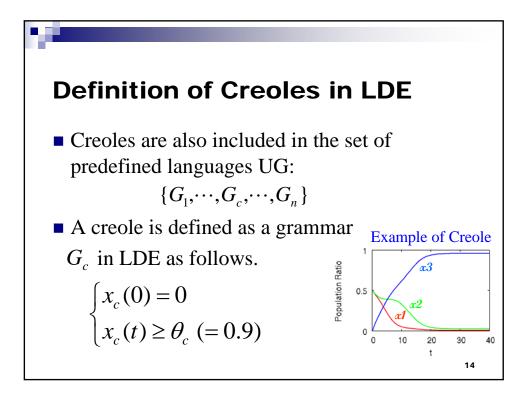


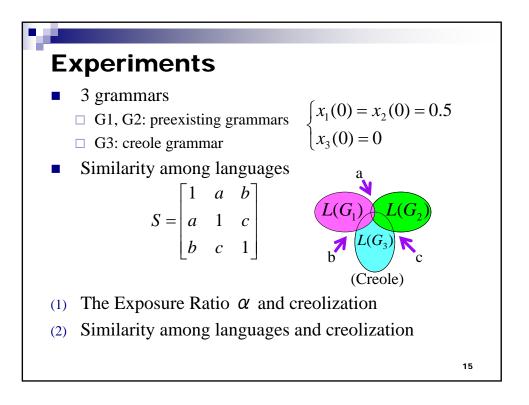


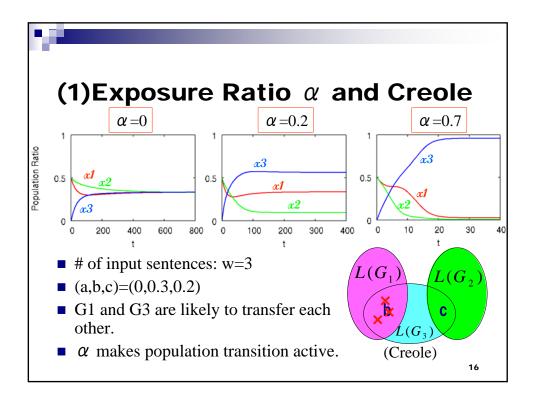


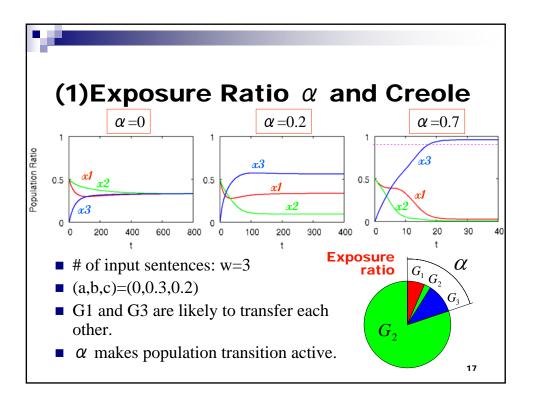


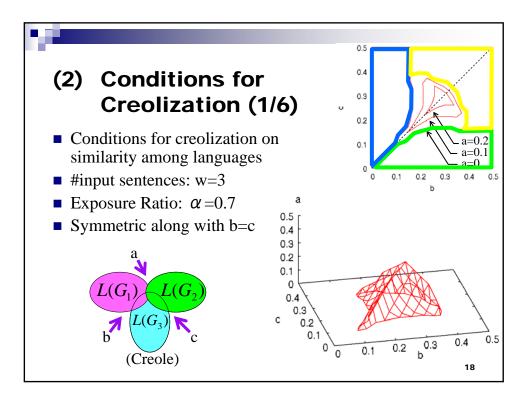


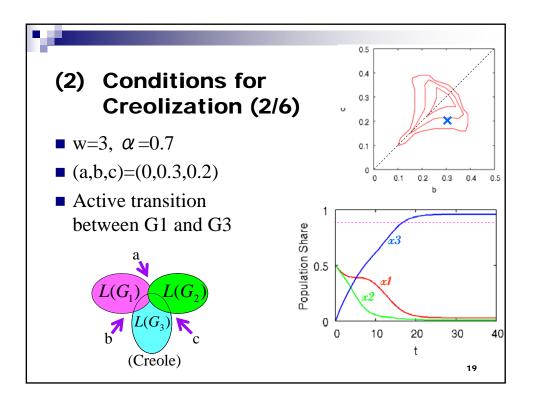


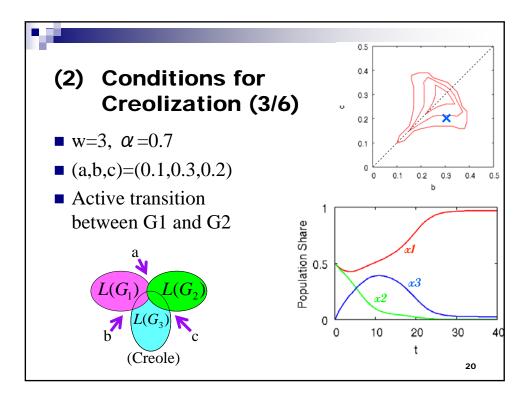


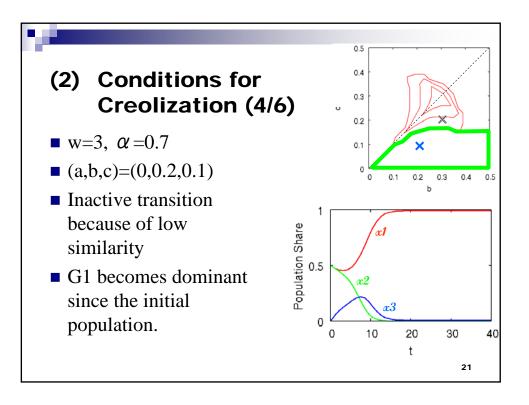


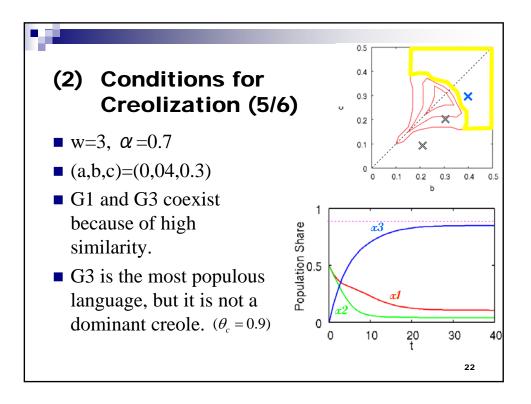


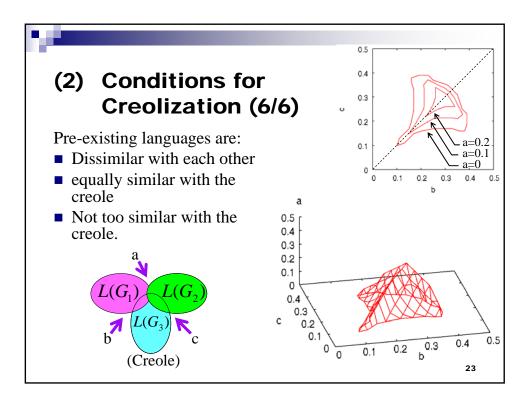


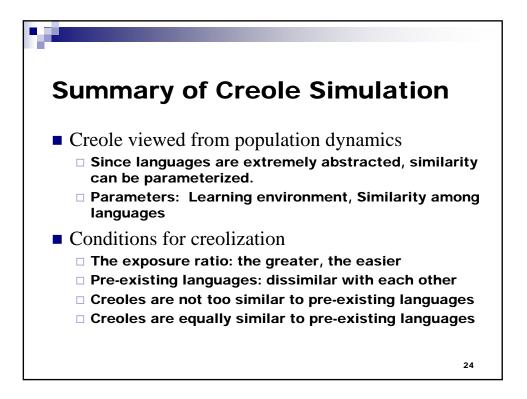








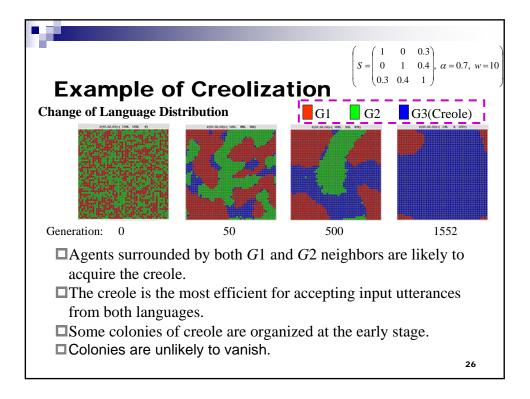


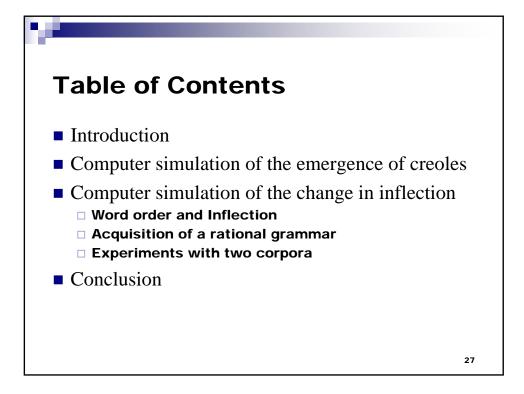


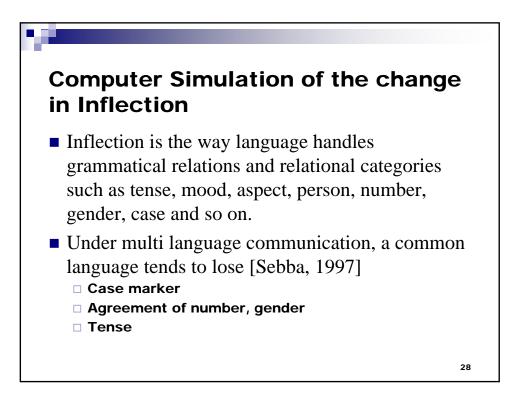
Introducing a Spatial Structure to Language Dynamics

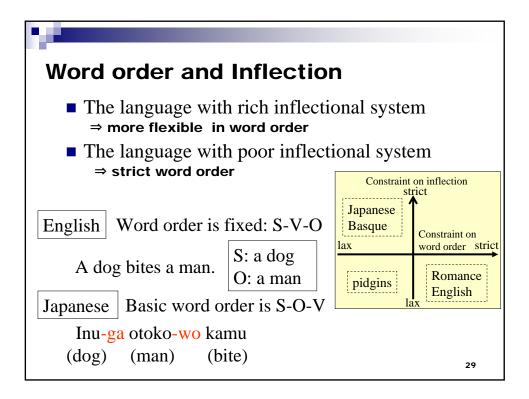
- How do language learners organize a creole community?
- Each individual independently acquires a language, applying the transition probability.
- Deterministic vs. stochastic

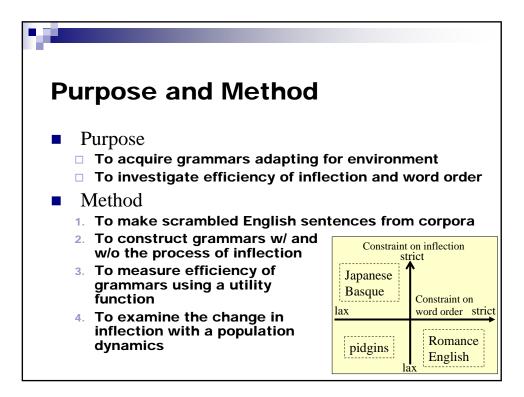


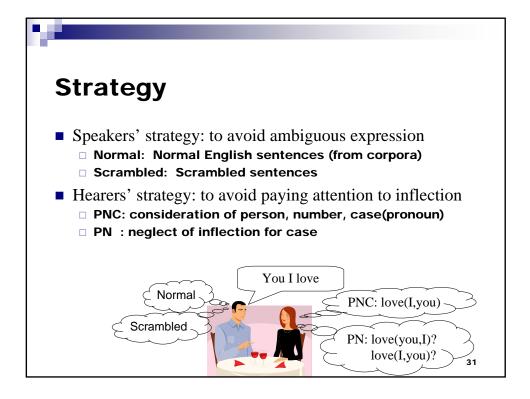


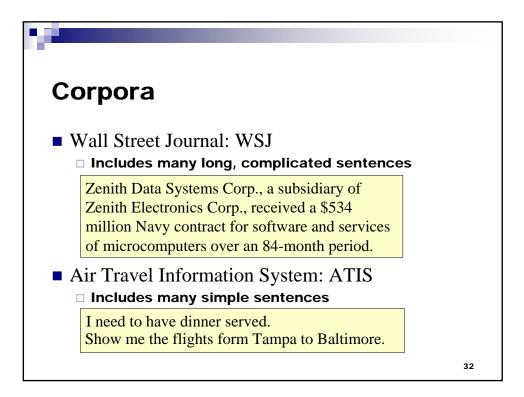


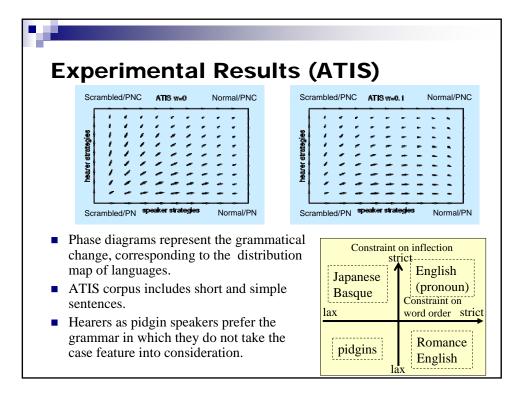












Experimental Results (WSJ)	
Scrambled/PNC WSJ w=0 Normal/PNC	Scrambled/PNC WSJ w=0.1 Normal/PNC
 WSJ corpus includes long and complicated sentences. Case features help them to avoid ambiguous expressions. Hearers prefer the grammar in which th take the case feature into consideration, even if it is a burden on the hearers. 	

