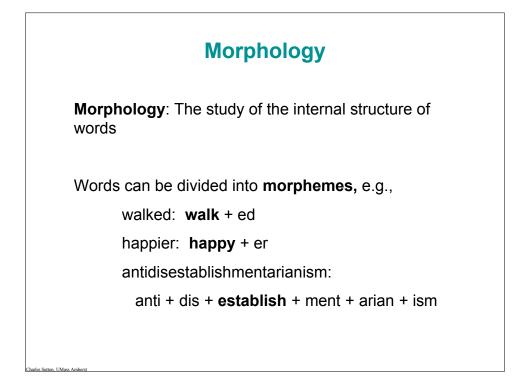
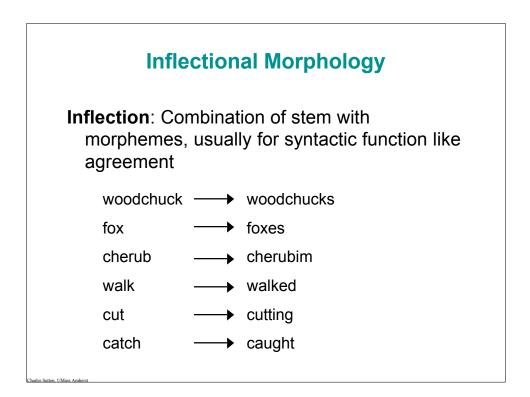
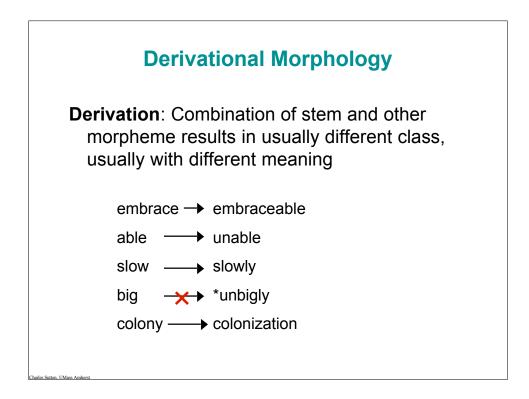
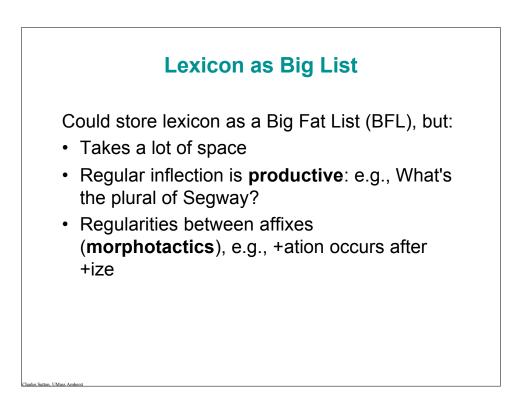


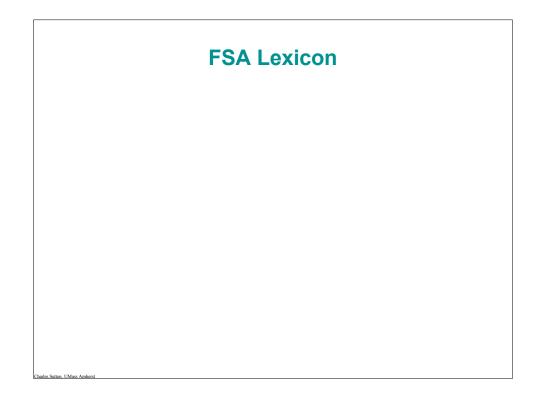
Is English regular? (center embedded sentences) The cat likes tuna fish. The cat the dog chased likes tuna fish. The cat the dog the rat bit chased likes tuna fish. The cat the dog the rat the elephant admired bit chased likes tuna fish.





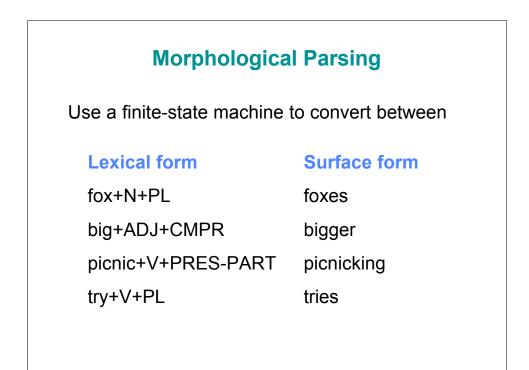


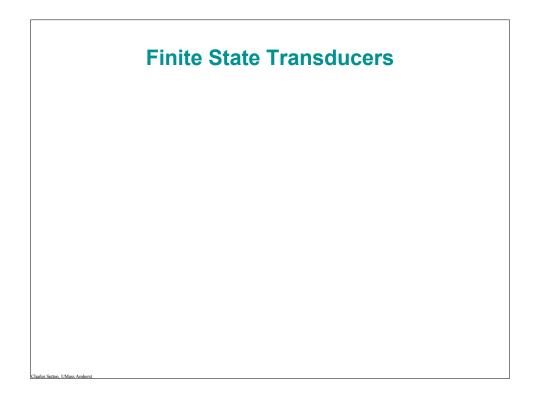


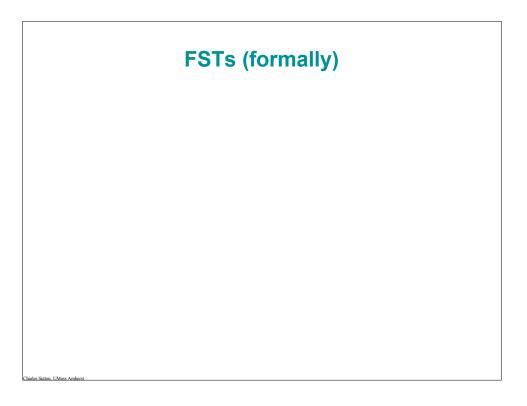


Problems with this FSA... Works fine as a way of storing a lexicon Doesn't tell us how to inflect new words (e.g., fax inflects just like fox)

Orthography		
Spelling often changes as affixes are added		
Α	В	С
fox	fox+s	foxes
big	big+er	bigger
picnic	picnic+ing	picnicking
try	try+s	tries
tton. UMass Amherst		







Views of FSTs Generator: Given "meow", output "baaa"

- Recognizer: Accept/reject a language of pairs like "(meow, baaa)"
- **Parser**: What words of Cat could have produced "baaa"?

Parsing with FSTs

- Can convert into an inverse transducer by reversing input/output
- Result could be **nondeterministic**, i.e., several arcs for the same input
- Convert to deterministic FSTs (this is always possible)

