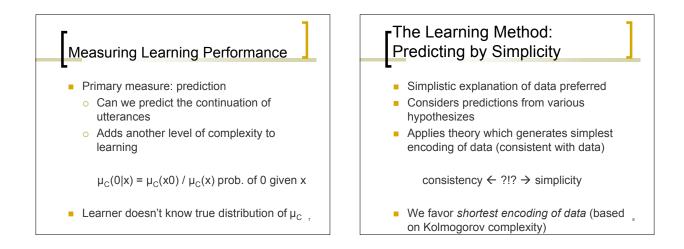


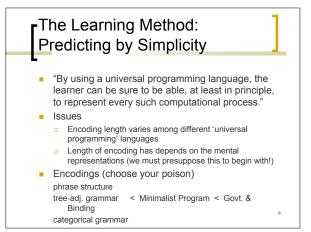
Class of Linguistic Inputs

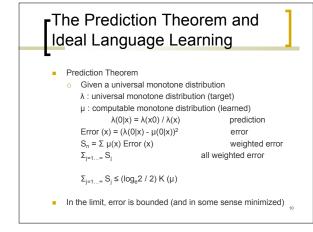
- Potentially Infinite
- Represented as a binary string
- Produced by a real computational process
- Combined with *random input* → explains effect of non-deterministic input to learner
- Modeled with
 - Monotone Turing machine
 - o Random input to the machine
- Random programming monkeys ex.

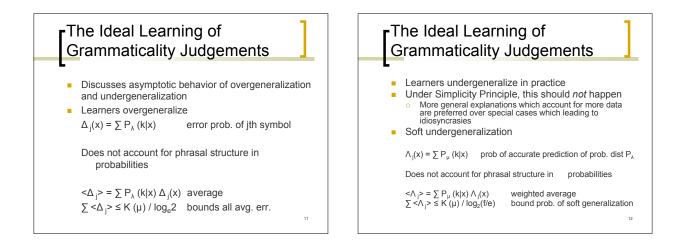
Class of Possible Models of Language

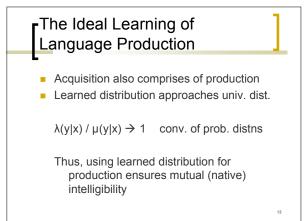
- Gold's Theorem: Only provides for *identification*
- Chomsky's context-free languages: principles and parameters framework
- The model of linguistic data must be generated by a computable process
 - Rules must have a mechanism by which they are learned
 Movement must have a mechanism
 - All linguistic constructs must be *learned*
 - (perhaps this will one day give feedback into linguistic theory!)











The Poverty of Stimulus Reconsidered

- Constraint-based systems complicate productive grammar, but constraints "can be learned given enough positive data" (needs to be fleshed out)
- Identification in the limit, we (last time) concluded is inapplicable, in general, to language acquisition
 His problem is identification, not learning
- Statistical properties of language, bivalence of grammaticality judgements (probabilistic models of language reception/production)
- Absence as implicit negative evidence

Summary Defined simplistic learner Convergence of predictive capabilities Convergence of grammaticality judgement Convergence of language production Language is learnable from positive input

