

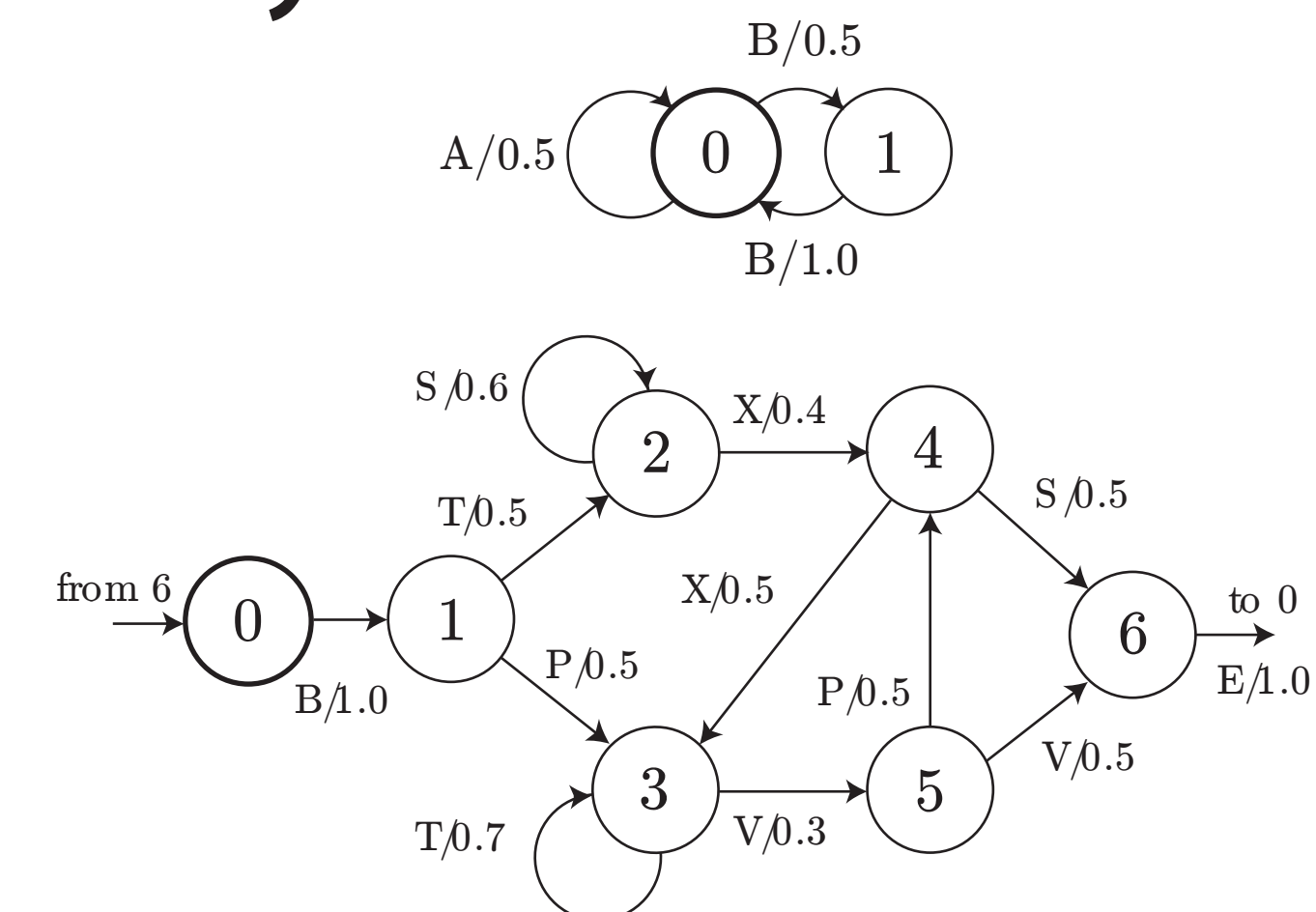
# Bayesian Infinite Automata

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Motivation

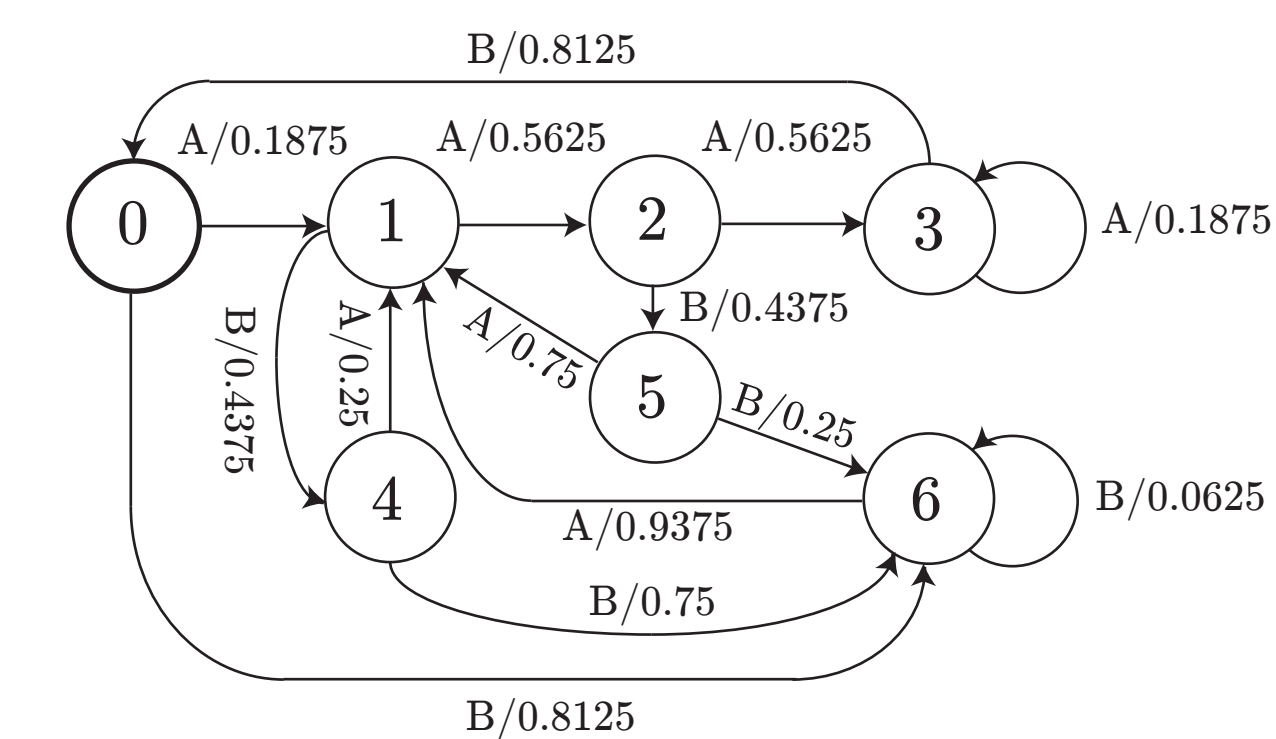
Taking the Infinite Limit

Synthetic Grammar Induction



Finite Automata

Why Gibbs Sampling Won't Work



Natural Language and DNA Prediction

A Prior over Finite Models

A Metropolis-Hastings Sampler

Future Directions