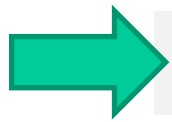


Central Questions to Ask about a LM: “ADMI”

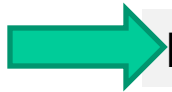
- **Application:** Why do you need a LM? For what purpose?



Evaluation metric for a LM

Topic mining and analysis
Sequential structure discovery

- **Data:** What kind of data do you want to model?



Data set for estimation & evaluation

Sequence of words

- **Model:** How do you define the model?



Assumptions to be made

Latent state, Markov assumption

- **Inference:** How do you infer/estimate the parameters?



Inference/Estimation algorithm

Viterbi, Baum-Welch