

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

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



Data set for estimation & evaluation

Text documents & context

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



Assumptions to be made

Mixture of unigram LMs

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



Inference/Estimation algorithm

EM algorithm, Bayesian