- Use a **held-out** corpus

Training Data	Held-Out Data	Test Data

- Choose λs to maximize the probability of held-out data:
  - Fix the N-gram probabilities (on the training data)
  - Then search for λs that give largest probability to held-out set:

$$\log P(w_1...w_n \mid M(\lambda_1...\lambda_k)) = \sum_i \log P_{M(\lambda_1...\lambda_k)}(w_i \mid w_{i-1})$$