Locality Sensitive Hashing - Applications

- audio related
  - musical similarity measurement
    "Audio Shingling For Measuring Musical Similarity"; Casey Slaney; 2006
  - similar acoustic events search
    "Finding Similar Acoustic Events Using Matching Pursuit And Locality-Sensitive Hashing"; Courtenay Cotton, Daniel P. W. Ellis; 2009
  - speaker search
    "Efficient Speaker Search Over Large Populations Using Kernelized Locality-Sensitive Hashing"; Woojay Jeon, Yan Ming Cheng; working paper
    "Large Population Speaker Search Using Kernelized Locality-Sensitive Hashing"; Woojay Jeon, Yan Ming Cheng; working paper

- non-audio related
  - content-based video identification
    "Hierarchical, Non-Uniform Locality Sensitive Hashing And Its Application To Video Identification"; Zixiang Yang, Wei Tsang Ooi, Qibin Sun; 2004
  - image search
    "Kernelized Locality-Sensitive Hashing For Scalable Image Search"; Brian Kulis, Kristen Grauman; 2009
  - biological network analysis (protein-protein interaction, ...)
    "Locality-Sensitive Hashing And Biological Network Alignment"; Laura LeGault; 2008
HMM training

- use a HTK recipe: http://www.keithv.com/software/htk/
  - Wall Street Journal (WSJ) and TIMIT corpora
  - CMU Pronouncing Dictionary
  - TIMIT corpus: train monophones
  - TIMIT+WSJ corpus: train triphones

- recipe can be adjusted to use only the TIMIT corpus