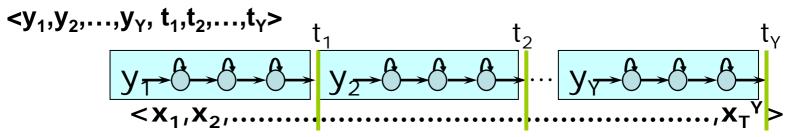
Three usages of the term "unlabeled data" in HMM

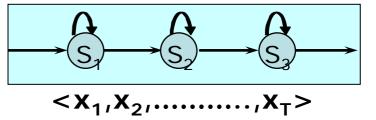
supplemental figure for [M. INOUE and N. UEDA TPAMI '03]

Automatic speech recognition (ASR) etc.
label = class label sequence + segment information



Part of speech (PoS) tagging, information extraction (IE) etc.

label = state label sequence



Pattern recognition, signal processing, bioinformatics etc.

label = class label for the entire sequence

