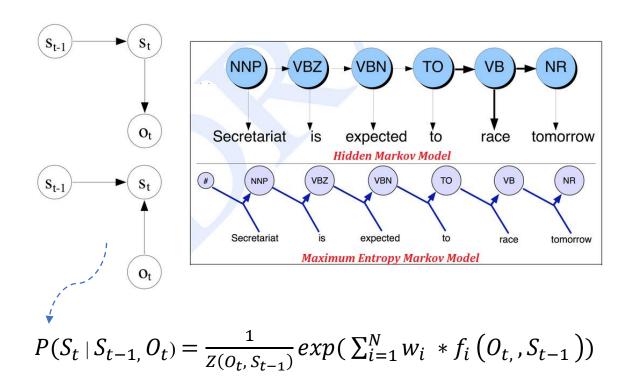
## Maximum Entropy Markov Model

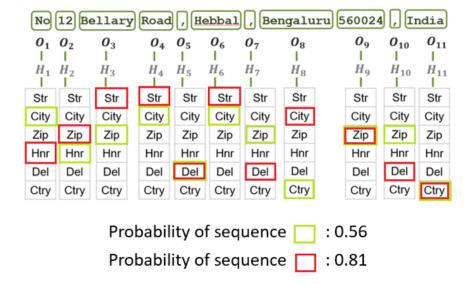
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## Maximum Entropy Markov Model (MEMM) for Sequence Labeling

- Probabilistic sequence labeling model with finite hidden states
- Prediction of hidden states (labels) in address type query
- Multinomial logistic regression for classification integrating features of observations (tokens)
- Encode the most likely state sequence using Viterbi algorithm (i.e. state sequence in max. a posteriori probability)





Sequence Labeling using MEMM for Address type queries (training data : ~2 million Amazon delivery queries in India)