

Sticky-favoring CRF over vocab {0,1}. Factor scores are in log-scale additive form G(y1, y2, y3) = A(y1, y2) + A(y2, y3) + B1(y1) + B2(y2) + B3(y3)

Most probable sequence: G() =

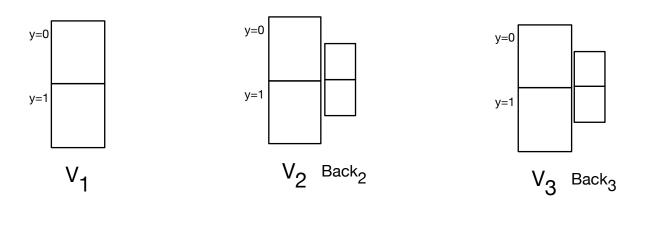
Second-most probable sequence: G(

What solution will the greedy algorithm find?

For t=1..T, Viterbi in additive form.... For k in {0,1}, $V_t[k] := \max_j (V_{t-1}[j] + A_{t-1}(j,k) + B_t(k))$ $Back_t[k] := \arg\max_j (...)$ For t=1, assume A₀(anything)=0 and V₀[anything]=0 Final backtrace step: take best-scoring from last VT, follow the backpointers all the way back

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Run Viterbi and fill out the trellis with arcs like in the textbook's HMM example.



Solution $y^* = ($, ,)