

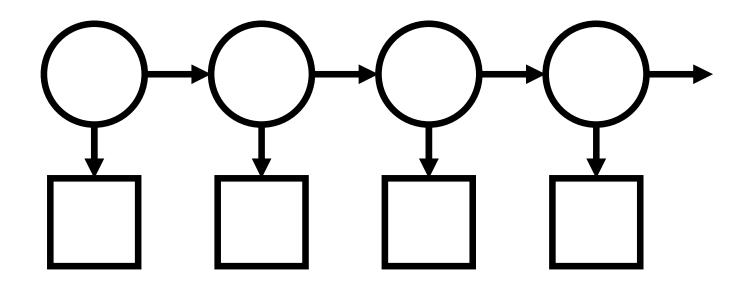
THE FOLLOWING **PREVIEW** HAS BEEN APPROVED FOR

11-711 AUDIENCES

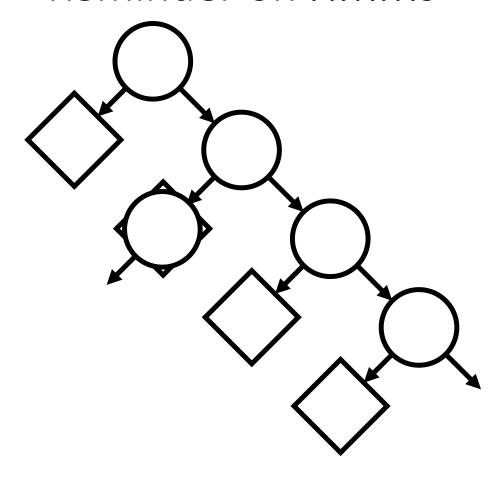
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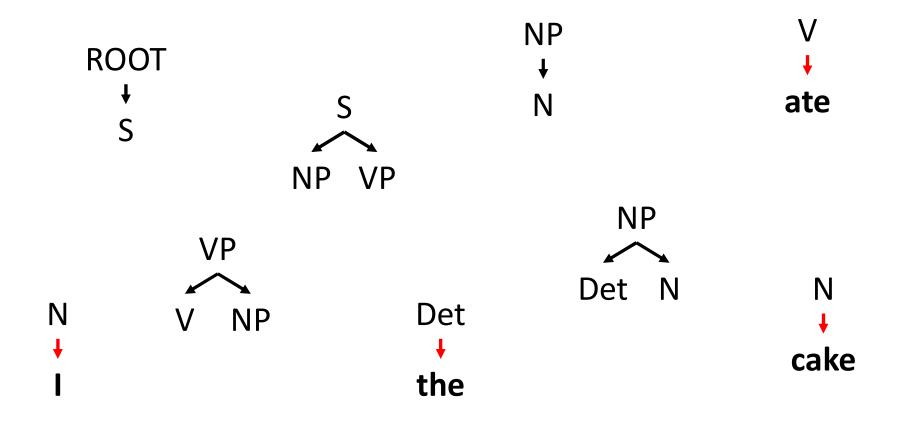
Reminder on HMMs



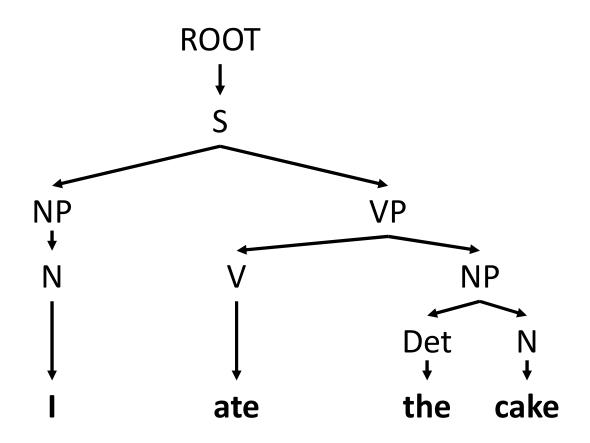
Reminder on HMMs



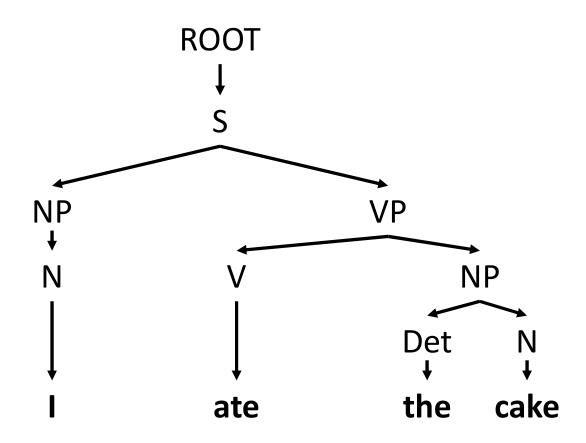
Context-Free Grammars

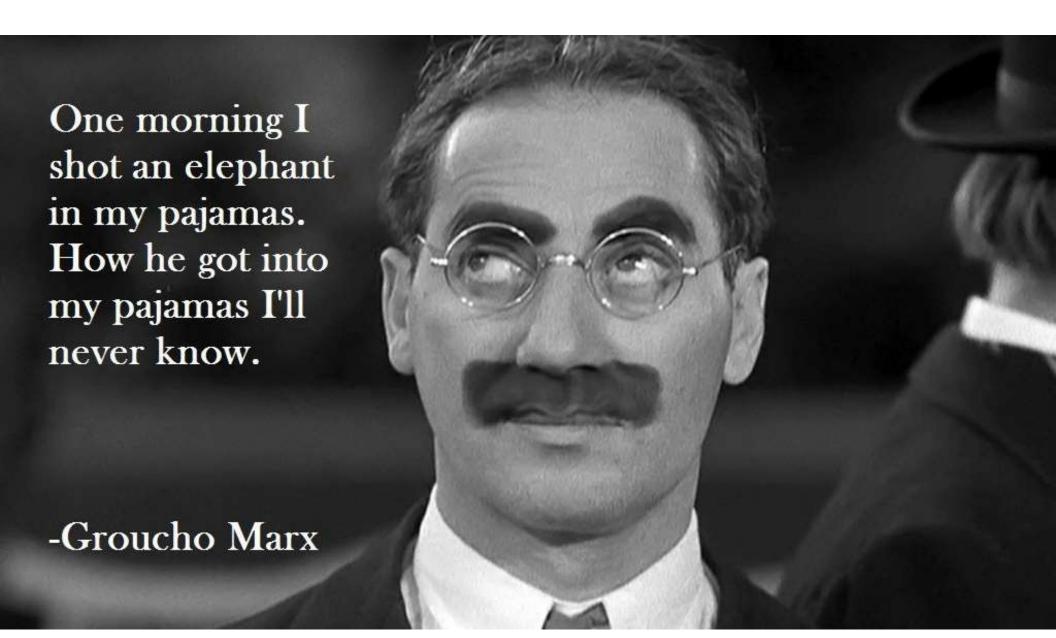


The Generative Story

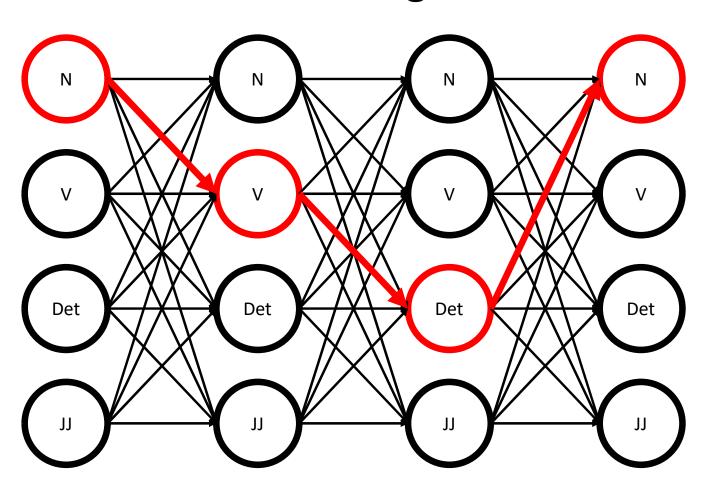


Parsing

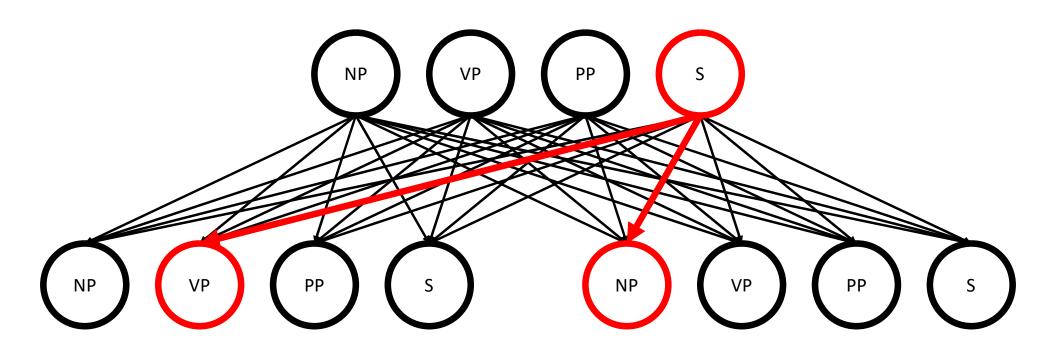




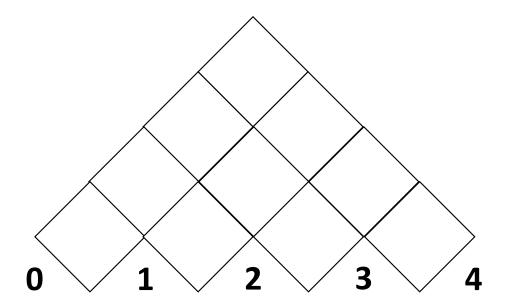
Viterbi – Decoding an HMM



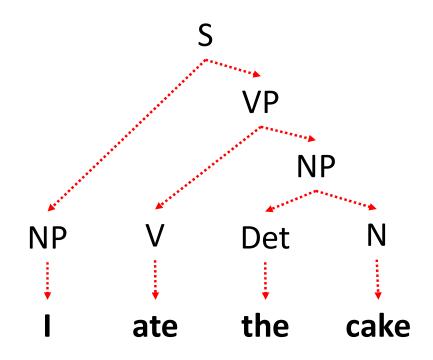
CKY – Decoding a Tree



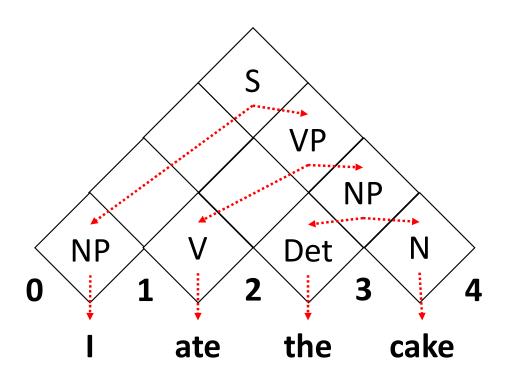
The Chart



The Chart



The Chart







Parsing with CKY

PCFG Rules

- 1: NP -> Det N
- 3: VP -> V NP
- 2: PP -> P NP
- 2: VP -> VP PP
- 1: S -> NP VP
- 3: NP -> NP NP
- 1: NP -> time
- **3**: NP -> flies
- 2: VP -> flies
- 3: V -> like
- 2 : P -> like
- 1 : Det -> an
- 1: N -> arrow

