1 The Dependency Parsing Problem (Part 2)

1.1 Question (time: 3:45, slide: 6)

Consider the sentence "John saw a movie".

Draw the following dependency parses. Which are valid (projective) parses?

(a) (2, 1), (0, 2), (1, 3), (3,4)

(b) (2, 1), (0, 2), (2, 3), (3,4)

(c) (2, 1), (0, 2), (2, 4), (3,4)

(d) (0, 1), (1, 2), (2, 3), (3,4)

2 GLMs for Dependency Parsing (Part 1)

2.1 Question (time: 4:01, slide: 12)

Say we have a sentence "John saw a movie" and we are computing features. How many possible arcs (h, m) are there for this sentence?

A Answers

- (b) (d)

  The incorrect parses either have a crossing dependencies or have a word used multiple times as a modifier.

- 20

  The answer is 20. There are four words that are possible modifiers and five words that a possible heads. The total is $5 \times 4 = 20$.