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Topic: Lecture 4 Source: Lecture 4

We didn't talk about it in class, but how do you think a parenthetic clause (where an explanatory or tangential clause is inserted into another) might be accounted for in a CFG or feature grammar? You can assume that it works similarly for all different types of phrases. (1)

Topic: Lecture 3 Source: Lecture 3

Explain why the following rule is not valid in a CFG: NP VB -> DT NN VB (1)

Topic: Lecture 1 Source: Lecture 1

Describe why POS tagsets may need to differ depending on the language that we are parsing.

(1)

Topic: Lecture 4 Source: Lecture 4

Name 2 advantages of feature grammars over CFGs, and briefly explain why they are useful.

Topic: Lecture 3 Source: Lecture 3

Explain how phrasal attachment errors produce ambiguity. (1)

Topic: Lecture 2 Source: Lecture 2

Do you think that we could do dependency parsing and a constituency-based task (such as chunking) at the same time? What features of the tasks might support each other (additive qualities), and which might make such a task more difficult (adversarial qualities)? (2)

Topic: Lecture 1 Source: Lecture 1

Imagine someone develops a new parser that has 100% accuracy. The developer claims it has 100% on every test set they've tried. Why might you be sceptical of such claims? How would you go about trying to disprove them? (2)

Topic: Lecture 2 Source: Lecture 2

Imagine you're working on analysing customer feedback, and your boss wants you to identify the most common complaints. How might you use your parsing knowledge to automate and distill the most common complaints? You can assume that complaints have already been labeled with the product they are complaining about. You can also assume that just sorting the frequency of tokens is going to be insufficient. (2)

Topic: Long

Source: Lecture 1

Imagine you're a text-to-speech (TTS) engineer. You've been asked by your boss to make your system sound more authentic by incorporating intonation into your model. Intonation is a pitch and stress pattern that differs between different pragmatic conditions. For example, English yes-no questions have a rising pitch on the end of the clause, imperative statements (ie, commands) have a falling pitch, and declarative sentences, while also falling, are not typically as sharp a fall as imperative sentences. How might you use this information, along with a parser, to modify your TTS system? Are there any complications or ambiguities that you can think of? (3)

END OF QUIZ