

START OF QUIZ

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Question 1

Topic: Lecture 3

Source: Lecture 3

What does it mean to delexicalize a sentence? Why might that help or harm an automatic parser? (1)

Question 2

Topic: Lecture 1

Source: Lecture 1

English is an SVO (Subject-Verb-Object) language, but only most of the time. Can you think of an example where this order is violated? Why do you think this doesn't confuse speakers of English? (1)

Question 3

Topic: Lecture 2

Source: Lecture 2

What properties of English syntax make regular expressions suitable for chunking? Do you think that this functionality would extend to many other languages? Briefly explain. (1)

Question 4

Topic: Lecture 1

Source: Lecture 1

Imagine we were trying to create a treebank for an unknown language. We start by creating a list of words with their parts of speech. Do you think it would make sense to collect open or closed classes first? Explain. (1)

Question 5

Topic: Lecture 2

Source: Lecture 2

In class, we discussed that syntax and morphology are often bound together. Can you give an example of this in English? (1)

Question 6

Topic: Lecture 3

Source: Lecture 3

Post-positive adjectives are adjectives that occur after the noun phrase they are modifying (such as "attorney/surgeon general", "somewhere nice", "nothing important"). Given that they tend to occur in set phrases, do you think it would be better to write a general class of PostAdj, and create PostAdj phrases in a CFG, or just list them as valid NPs (ie, NP = surgeon general)? Discuss the pros and cons of either decision. (2)

Question 7

Topic: Lecture 4

Source: Lecture 4

Basque is an "ergative-absolutive" language - instead of defining NPs with respect to labels such as "subject" and "direct object", NPs are defined with respect to "subject of a transitive verb" (ergative) or "subject of an intransitive verb OR object of a transitive verb" (absolutive). Explain what features would need to be defined in such a grammar, and how they would interact (you can assume a similar SVO order as English). (2)

Question 8

Topic: Lecture 4

Source: Lecture 4

Given two parse trees, calculate the PARSEVAL score. Also briefly describe whether any errors are "syntacto-semantic" errors (ie, an error that requires real-world knowledge to arrive at the correct parse). 1: (S (NP (DT The) (JJ quick) (JJ brown) (NN fox)) (VP (VBZ jumps) (PP (IN over) (NP (DT the) (JJ lazy) (NN dog)))))) (2): (S (NP (NP (DT The) (NP (JJ quick) (NP (JJ brown) (NN fox))))) (VP (VBZ jumps) (PP (IN over) (NP (DT the) (JJ lazy) (NN dog))))))

Question 9

Topic: Long

Source: Lecture 3

In class, we briefly mentioned OSASCOMP (the order of adjectives in English - Opinion, Size, Age, Shape, Colour, Origin, Material, Purpose). For example, we can have the "big red Italian car", but not the "red Italian big car". Please compose a CFG that can handle this ordering (you can assume that our grammar already knows what adjectives and noun phrases are). (3)

END OF QUIZ