

START OF QUIZ

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Question 1

Topic: Topic4

Source: Lecture 4

In class, we've discussed links in an ontology as positive predicates. Do you think it is worthwhile to create negative predicates (ie, Hamlet is not alive), etc.? What might be some benefits and disadvantages of such an approach, and does one outweigh the other?

Question 2

Topic: Topic3

Source: Lecture 3

What is the Modus Ponens conclusion available from the following statements? If Modus Ponens does not apply, state so. Jim has hair. Bald men have no hair.

Question 3

Topic: Topic2

Source: Lecture 2

Describe how a seed lexicon can be used to perform semi-supervised WSD.

Question 4

Topic: Topic4

Source: Lecture 4

Some verbs in English can take either one or two objects (such as “see” - I see a bird vs. I see a bird with binoculars). Explain, in terms of lambda calculus, why we would need separate predicates for these different uses of “see”.

Question 5

Topic: Topic2

Source: Lecture 2

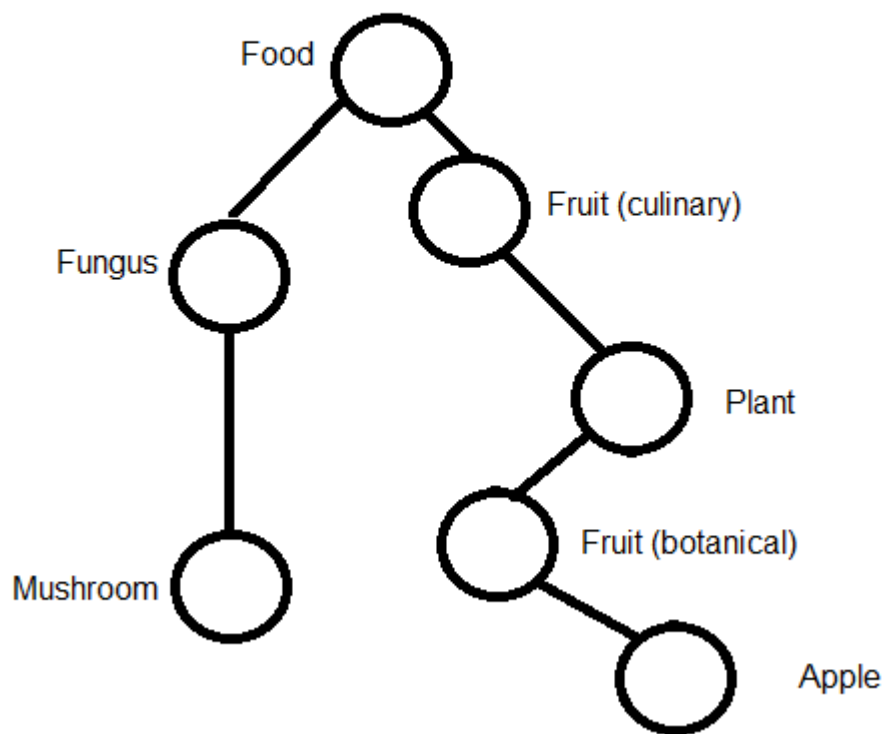
What is the meaning of “One document, one sense” as it applies to Word Sense Disambiguation?

Question 6

Topic: Topic1

Source: Lecture 1

Given the following tree, what is the path similarity between the two leaf nodes?



Question 7

Topic: Topic3

Source: Lecture 3

Describe the effect that negation has on other logical operators - specifically, conjunction, disjunction, existence, and universality. You don't need to write this in FOL - a couple sentences are fine.

Question 8

Topic: Topic1

Source: Lecture 1

Why are antonyms conditioned on lemmas, instead of synsets?

Question 9

Topic: Coding

Source: Lecture 2

Write a function that transforms a sentence into a feature vector containing the following features: the first word before and after the word of interest that isn't a stopword, and any verbs in the sentence.

END OF QUIZ