

START OF QUIZ

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Question 1

Topic: Topic1

Source: Lecture 1

What is the relationship between roots and a tree?

Question 2

Topic: Topic4

Source: Lecture 4

Why is FOL more expressive than ontologies (Description logics)? ie., what can FOL do that ontologies can't?

Question 3

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 4

Topic: Topic2

Source: Lecture 2

What is the underlying assumption of the Lesk Algorithm?

Question 5

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 6

Topic: Topic2

Source: Lecture 2

In class, I mentioned that we rarely do WSD explicitly, because we would need one model per word. In COLX 521, we saw that we could lemmatize words to reduce them to a common form. Why couldn't we do something similar (like reducing all synonyms to a common hypernym) for WSD?

Question 7

Topic: Topic3

Source: Lecture 3

Prove that $A \leftrightarrow B \iff A \rightarrow B \text{ and } B \rightarrow A$

Question 8

Topic: Topic1

Source: Lecture 1

Should we lemmatize prior to looking up a word's sense? Why or why not?

Question 9

Topic: Coding

Source: Lecture 4

Give an example of 3 RDF statements, other than we described in class. (ie, an example of an inverse relationship is ...; an example of a transitive relationship is ...)

END OF QUIZ