Language Technology I 2014/2015

Relation Extraction Exercises 2

1. ***What are three major Vs of Big Data?***

Answers: Slide 74

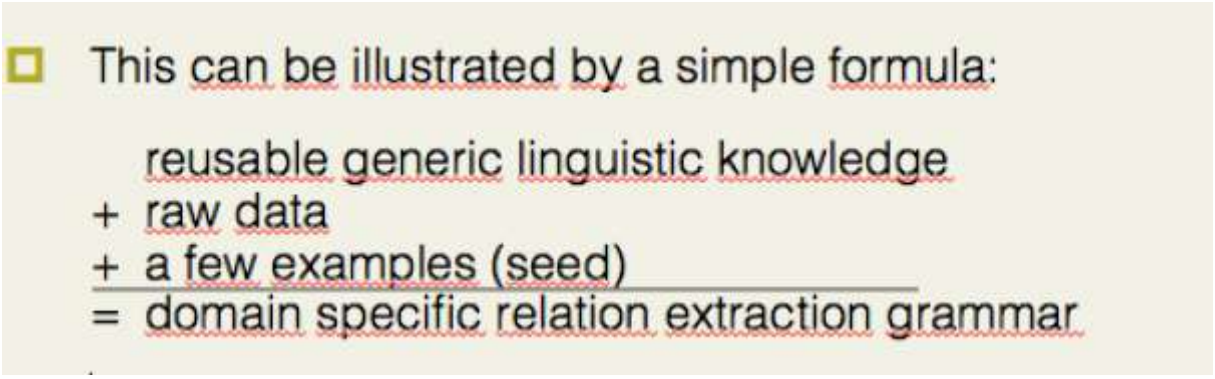
2. ***Why is domain adaptation a challenge for big text data analytics?***

Answers: Slide 76

3. ***Please describe the DARE and Web-DARE system:***
    a. How can the DARE system be formulated as a single "formula"?
    b. What is the input of the Web-DARE system?
    c. Which linguistic components does DARE and Web-DARE use?
    d. Explain the bootstrapping mechanism employed.
    e. The 2014 Xmas travel question: Why don't DARE people like islands?

Answers:

a. Slide 72



b. Slide 90: 1) semantic seed: examples of relations; 2) web documents
c. Slide 90: 1) named entity recognition; 2) parser with grammar
d. Slides 45-60: Abstraction yields more generic rules. Reparsing yields new mentions and new events. Iterate until fix point reached.
e. Slide 68. Many islands render the bootstrap mechanism powerless. Solution: Establish "bridges" between islands using other data. Also use linguistic semantic relations from Wordnet or ontologies, e.g. synonymy or hyperonymy.