Precision Grammar Implementation for Linguistic Hypothesis Testing

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http://lingo.stanford.edu/courses/07/lsa/
Overview

Lecture

- Food for thought.
- Discussion: Syntactic hypothesis testing

Lab

- Extend your test suites
- Extend your grammars
Groundwork

- What is a syntactic hypothesis?
- First: What is syntax?
- What is a syntactic analysis?
- What is the relationship between an analysis and a hypothesis?
Hypothesis testing with and without computers

- How do you test syntactic hypotheses without computers?
- How can we use computers to improve on that?
- What requirements does this place on the hypotheses to be tested or the way they are stated?

Data for hypothesis testing

- How do you select the data for the test suite?
- What different kinds of data should be included?
- How much data is needed?
- What constitutes a single test item?
How can you tell if analyses of different linguistic phenomena interact properly?

If they don’t, what has been invalidated?

Can particular analyses/hypotheses be tested independently of other assumptions?

How do implemented and non-implemented grammars differ with respect to assumption-relative hypotheses?