

CS 6890: Assignment 3
Due: Tuesday, October 27, 2009, by 11:59 p.m.

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General Guidelines

This is a coding assignment. Submit your NetBeans project via Blackboard.

Conceptual Analyzer

Implement a conceptual analyzer that can handle the following three sentences:

1. **John gave Mary a book.**
2. **Mary gave a book to John.**
3. **John took Mary to Chicago.**

Your CA should map the sentences to the following corresponding CDs:

1. (ATRANS :ACTOR (HUMAN :NAME (JOHN) :GENDER (MALE))
:OBJECT (BOOK :REF (INDEF))
:FROM (HUMAN :NAME (JOHN) :GENDER (MALE))
:TO (HUMAN :NAME (MARY) :GENDER (FEMALE))
:TIME (PAST));
2. (ATRANS :ACTOR (HUMAN :NAME (MARY) :GENDER (FEMALE))
:OBJECT (BOOK :REF (INDEF))
:FROM (HUMAN :NAME (MARY) :GENDER (FEMALE))
:TO (HUMAN :NAME (JOHN) :GENDER (MALE))
:TIME (PAST));
3. (PTRANS :ACTOR (HUMAN :NAME (JOHN) :GENDER (MALE))
:OBJECT (HUMAN :NAME (MARY) :GENDER (FEMALE))
:FROM NIL
:TO (CITY :NAME (CHICAGO))
:TIME (PAST)).

You do not have to handle ambiguity in this assignment (unless, of course, you want an extra challenge ☺). Thus, you can associate with **gave** only the meaning of **ATRANS** and with **took** only the meaning of **PTRANS**.