









• Are conceptually normal structures of NL character strings compatible with their being usable as a deductive base.?



## Readings

• We propose structures of NL character strings called "readings," which are defined along the lines of logic based structures, but which are conceptually normal and flexible as well as usable as a deductive base.











## Some Aspects of the Grammar of SYN(c)

- SYN(c) has no variable.
- <u>The grammar</u> of SYN(c) is an "open" grammar, which means that for any given occurrence of a given character string c, SYN(c) can be an n-place relation expression r<sup>n</sup>, a thing expression a, or a modifier expression.
- <u>Rationale</u> of using an open grammar: This type of grammar is needed to account for differences in different users' understanding of given natural language character strings.



## Sentential Readings, Intuitively Considered

 Intuitively, a sentential reading of an NL character string c is a way of understanding c "as a sentence." That is, as a linguistic entity capable of being judged as true or false.







## **Regarding Conceptually Natural Readings**

- Syn(c) represents the meaning-bearing parts of c and their mode of organization in a manner which parallels the occurrence order and organization of those parts in c.
- Sem(c/f) represents the meanings of those meaning bearing parts assigned to them by the interpretation f; those meanings are sets built out of elements of an underlying domain of discourse, and parallels the mode of organization of those parts.





















- Let C consist of the following character strings:
  - 1. John is a man.
  - 2. Some woman is loved by every man.
  - 3. Some woman loves every man.
  - 4. Some woman loves John.
  - 5. John loves some woman.











