# Computational Logics, Semantics and Pragmatics: Semantic Interpretation

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Sbdm ip im vdu yonrckblms.

Abf ip im vdu bhhigu.

Sbdm yigaus ly vdu hbbvfnoo.

Abf zumv vb vdu aivgdum.

Mduku ip vdu hbbvfnoo? A:yonrckblms

Mduku znp Abf fuhbku vdu aivgdum? A:bhhigu

John is in the playground.

Bob is in the office.

John picked up the football.

Bob went to the kitchen.

Where is the football? A:playground

Where was Bob before the kitchen? A:office



מְפְלָנָה



### party

#### party

- Which sense of "party"?
- How many senses have "party"?
- How a computer should represent these senses?
- How these senses combine to form phrases?
- How phrases combine?

- For example:
  - The lexical-semantic knowledge allows us to better characterize the different meanings of the words
  - In 1992 Perot tried to organize a third **party** at the national level
  - She joined the party after dinner
  - They organized a party to search for food
  - He planned a party to celebrate Bastille Day
  - The party of the first part

- This better characterization may consist of:
- Add domain tags to each word sense
  - party¹n: politics
  - party<sup>4</sup><sub>n</sub>: free-time
- Distinguish the semantic relations that apply to each concept
  - party<sup>1</sup><sub>n</sub>: member of: political\_system<sup>1</sup><sub>n</sub>
  - party<sup>4</sup><sub>n</sub>: hyponym: wedding<sup>1</sup><sub>n</sub>
- Lexical Knowledge Bases, Ontologies?

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