

Computational Logics, Semantics and Pragmatics: Semantic Interpretation

Rodrigo Agerri <rodrigo.agerri@ehu.eus>

Itziar Aldabe <itziar.aldabe@ehu.eus>

Egoitz Laparra <egoitz.laparra@ehu.eus>

German Rigau <german.rigau@ehu.eus>



Motivation

Sbdm ip im vdu yonreckblms.
Abf ip im vdu bhhigu.
Sbdm yigaus ly vdu hbbvfnoo.
Abf zumv vb vdu aivgdum.
Mduku ip vdu hbbvfnoo? A:yonreckblms
Mduku znp Abf fuhbku vdu aivgdum? A:bhhigu

Motivation

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

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Motivation

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Motivation

พรรค

Motivation

party

Motivation

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?

Motivation

- 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*

Motivation

- This better characterization may consist of:
- Add domain tags to each word sense
 - party^1_n : politics
 - party^4_n : free-time
- Distinguish the semantic relations that apply to each concept
 - party^1_n : member of: $\text{political_system}^1_n$
 - party^4_n : hyponym: wedding^1_n
- Ontologies?

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