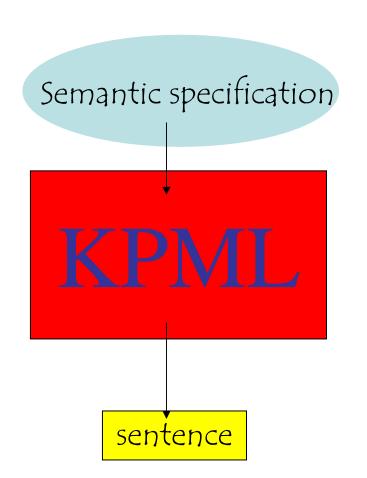
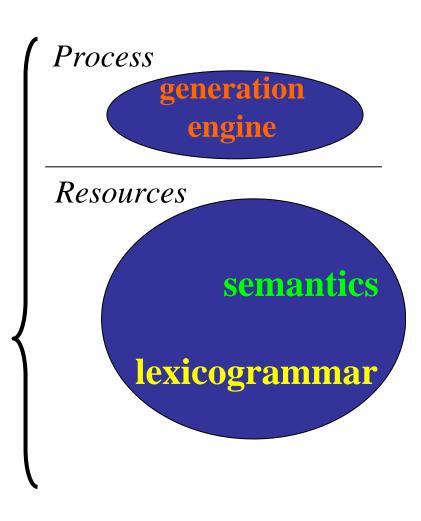
Semantics for NLG

KPML

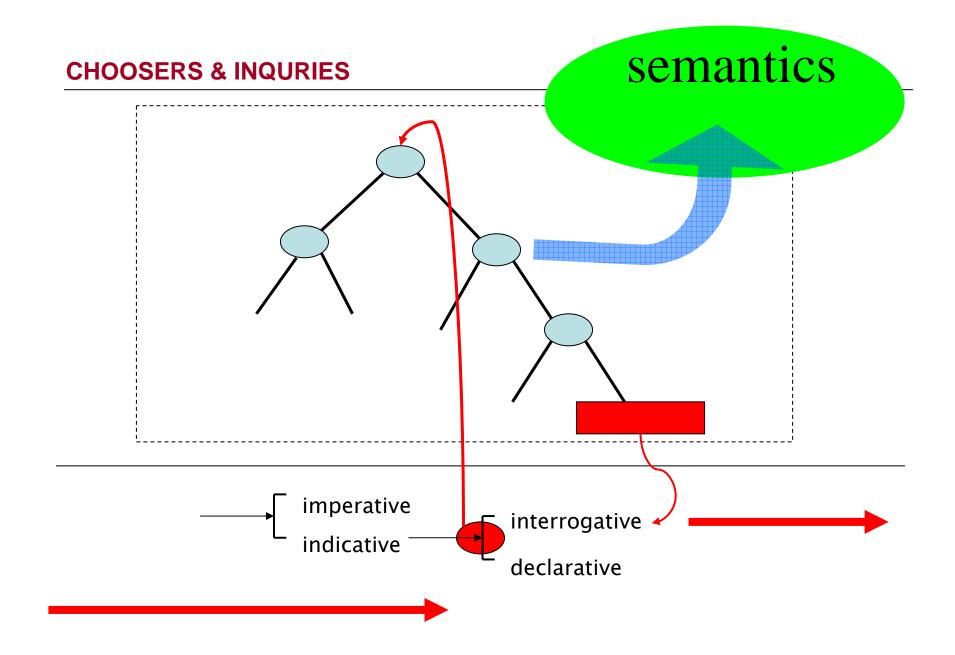
(tactical generation)



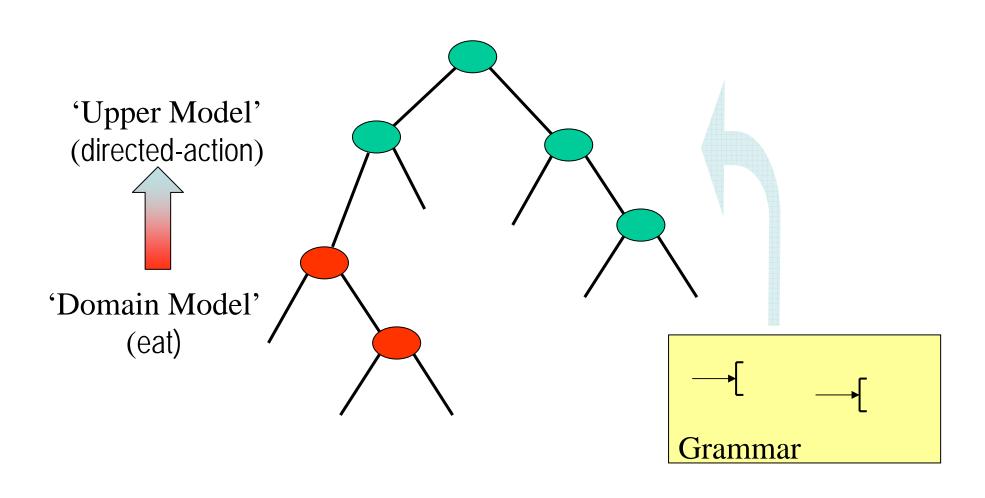


Resources for Generation

- Grammar definition (network)
- Lexicon definition

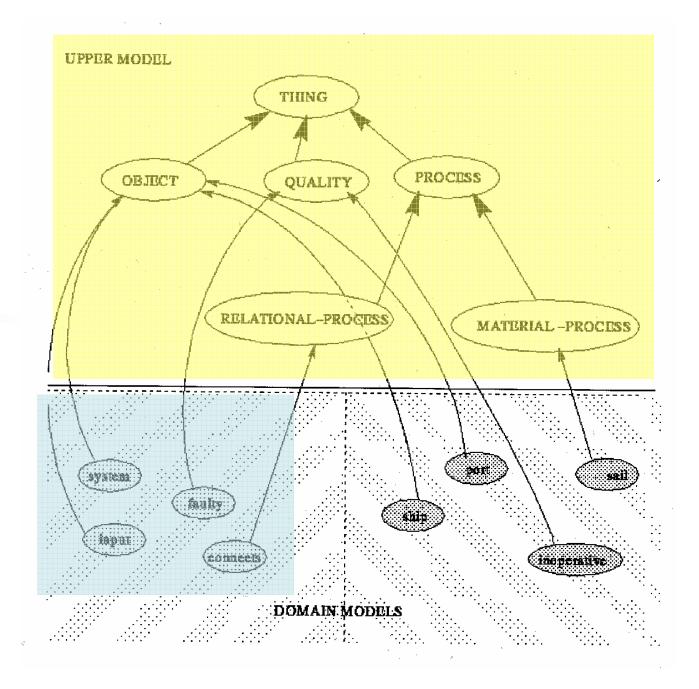


Control from an ontology



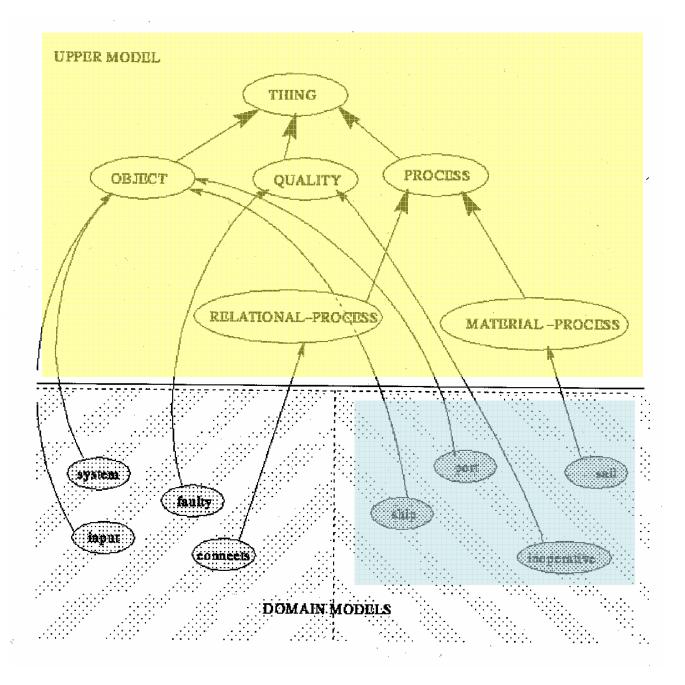
Relation between upper model and domain models

(1988-1990)

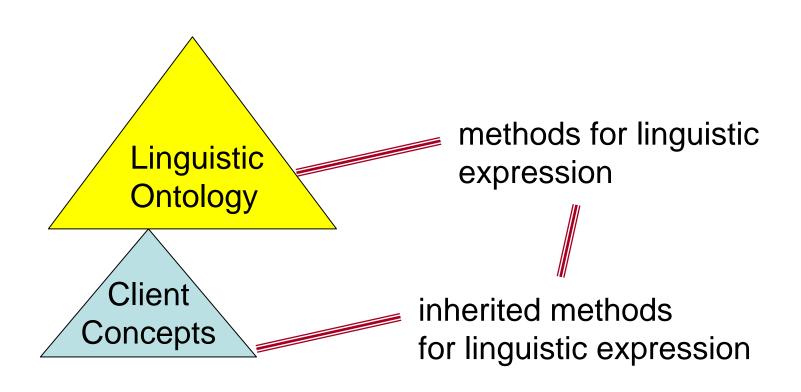


Relation between upper model and domain models

(1988-1990)



Relations between ontology and client knowledge representation



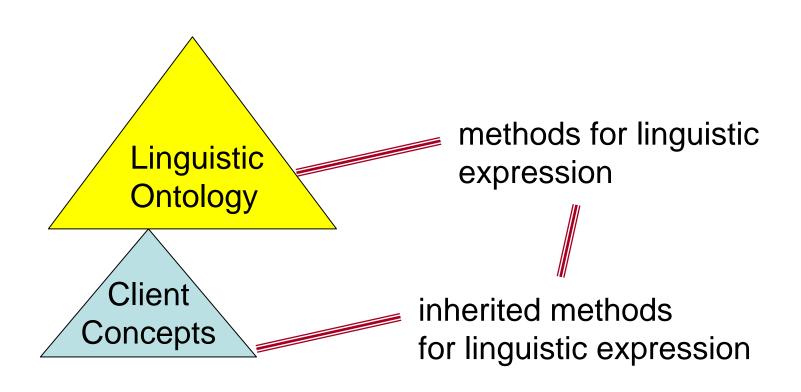
Semantic Input: Sentence Plan Language (<u>SPL</u>)

"The robot moves to the red block"

KPML: downloading

 http://www.fb10.unibremen.de/anglistik/langpro/kpml/longblack-box-instructions.htm

Relations between ontology and client knowledge representation



Example of use: semantic specifications

concepts and relations drawn from the upper model only

"The robot moves to the red block"

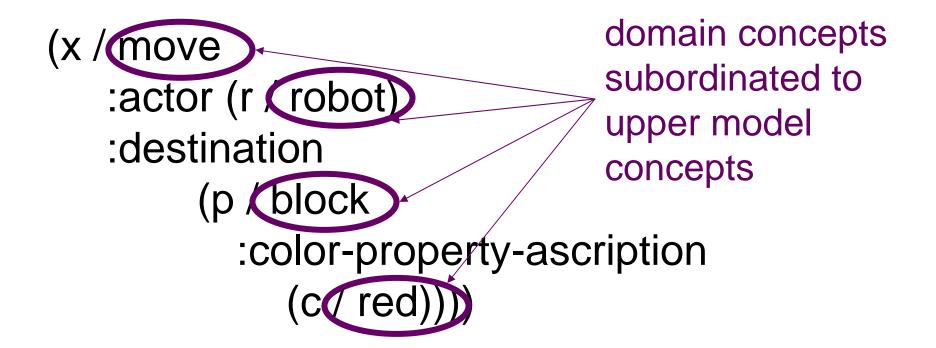
Upper model concepts

Upper model relations

Example of use: semantic specifications

moving domain concepts into the semantic specifications

"The robot moves to the red block"



Resources for Generation

- Grammar definition (network)
- Lexicon definition
- Domain model definition

Generating Sentences

- basic event structure
- reliance on ontological knowledge
- directed/non-directed actions
- temporal information
- polarity
- speech acts
- textual appropriateness
 - :theme
 - :identifiability-q identifiable
 - :empty-number-q empty

Short Documentation / Information on writing semantics specifications:

http://www.fb10.unibremen.de/anglistik/langpro/kpml/Doc/tutori al/tutorial.htm

Resources for Generation

- Grammar definition (network)
- Lexicon definition
- Domain model definition
- Text planning