

BOLT Agent Design

Shiwali Mohan

Computer Science and Engineering
University of Michigan

June 19, 2012

Goals and Agent Design

Learn with **natural language**, interactive, situated instruction.

Agent Component: *LGSoar*

Goals and Agent Design

Learn with natural language, **interactive**, situated instruction.

Agent Component: *Interaction Model*

Goals and Agent Design

Learn with natural language, interactive, **situated** instruction.

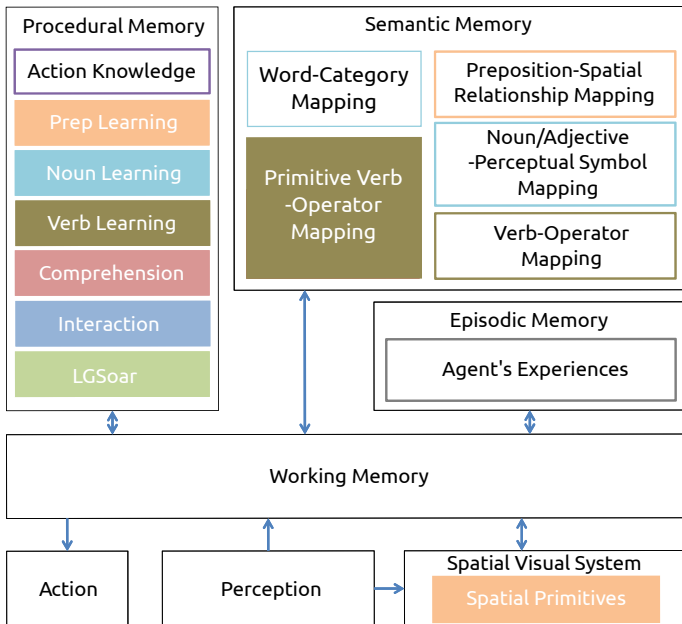
Agent Component: *Grounded Comprehension*

Goals and Agent Design

Learn with natural language, interactive, situated instruction.

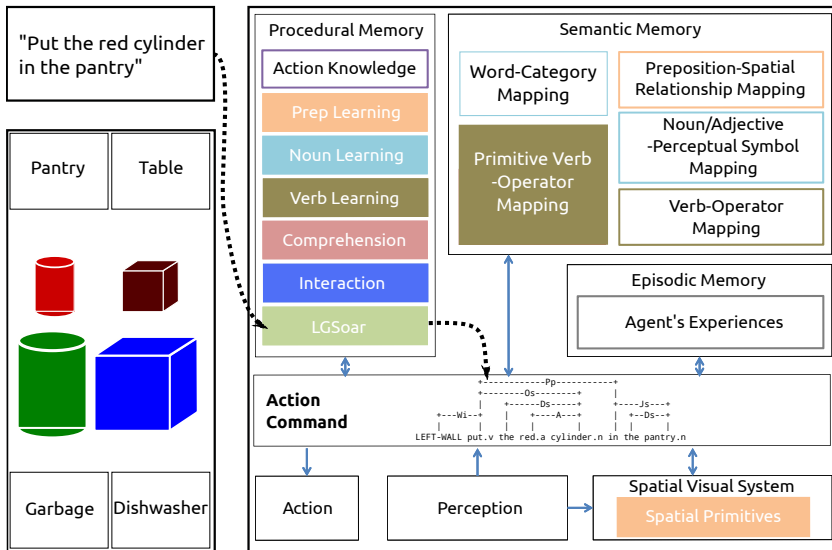
Agent Components: *Noun/Adjective, Preposition, Verb*

Agent Overview



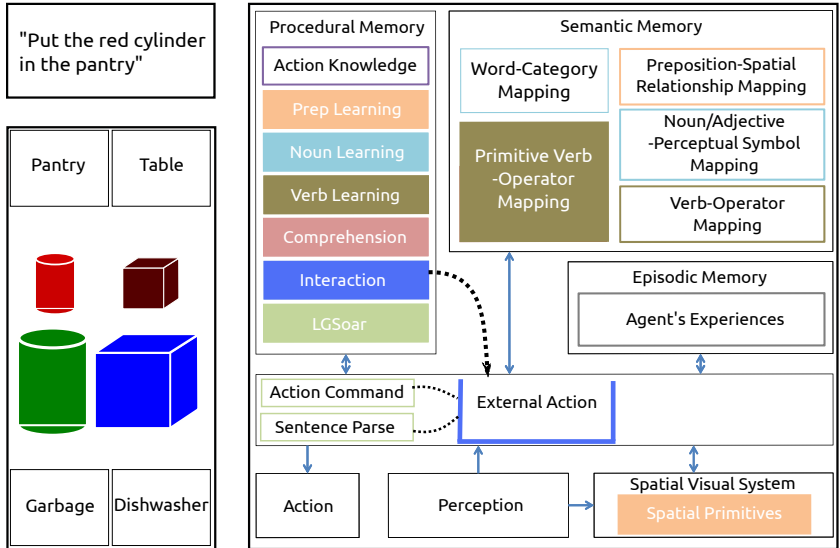
Phase I: Syntactical Processing

Language Parsing and Sentence Categorization - Sam Wintermute



Phase II: Interaction Management

Interaction Model - Shiwali Mohan

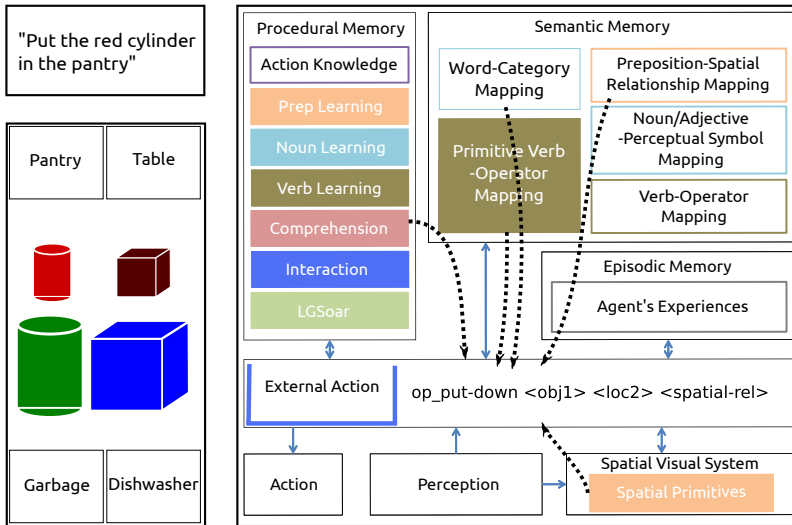


Phase III: Grounded Comprehension

Noun/Adjective Comprehension and Learning - Aaron Mininger

Preposition Comprehension Learning - James Kirk

Situated Comprehension of Action Commands - Shiwali Mohan



Phase IV: Behavior Execution

Verb Learning - Shiwali Mohan

