Semantic Memory Discussion
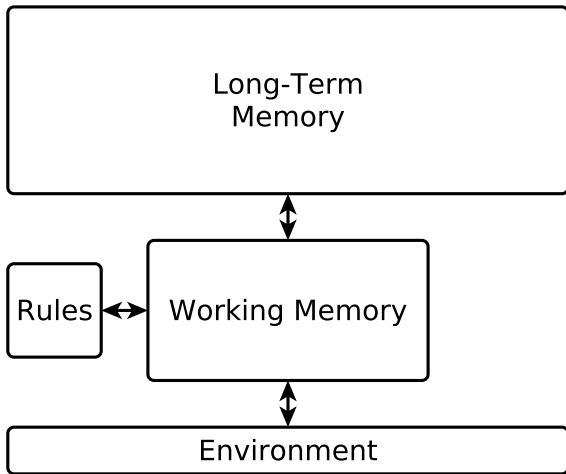
Justin Li

Computer Science and Engineering
University of Michigan
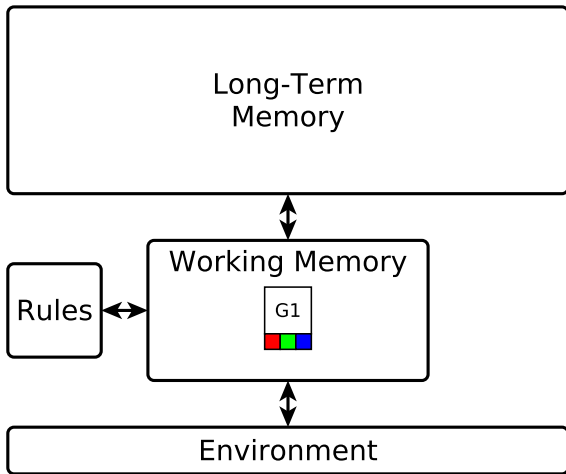
justinnh@umich.edu

2014-06-19
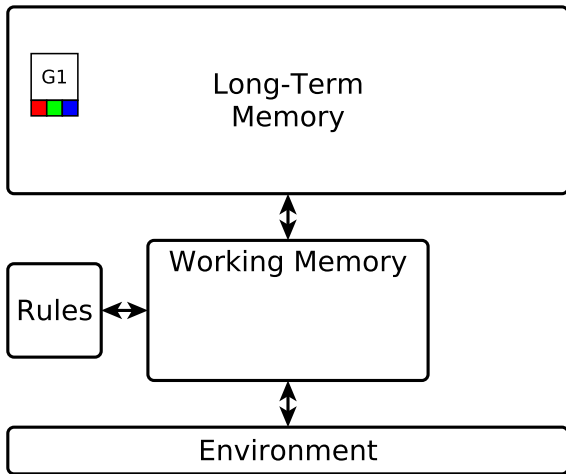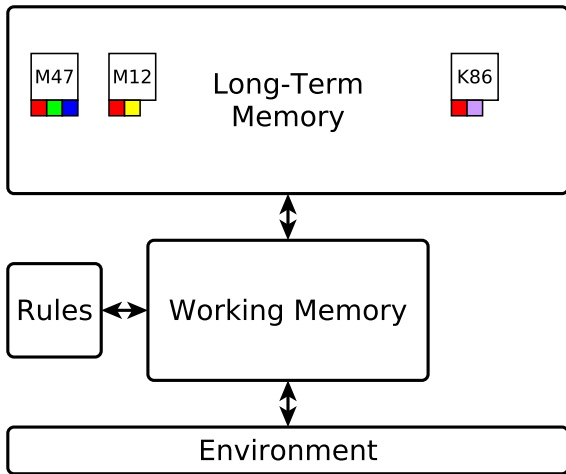
Why Long Term Memories?
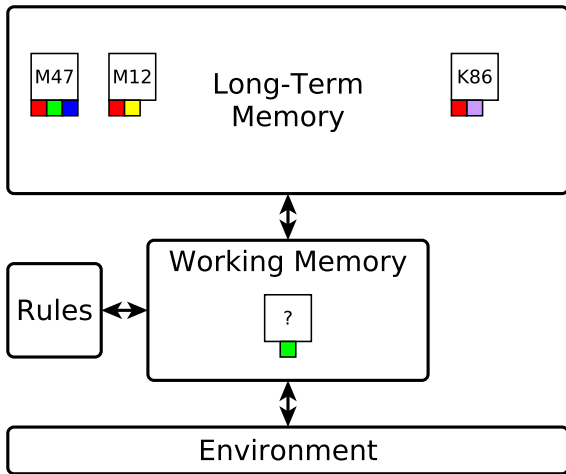
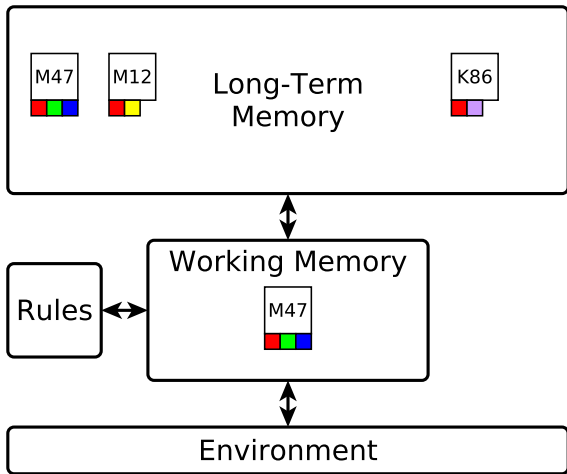# Semantic Memory Storage

Semantic Memory Storage

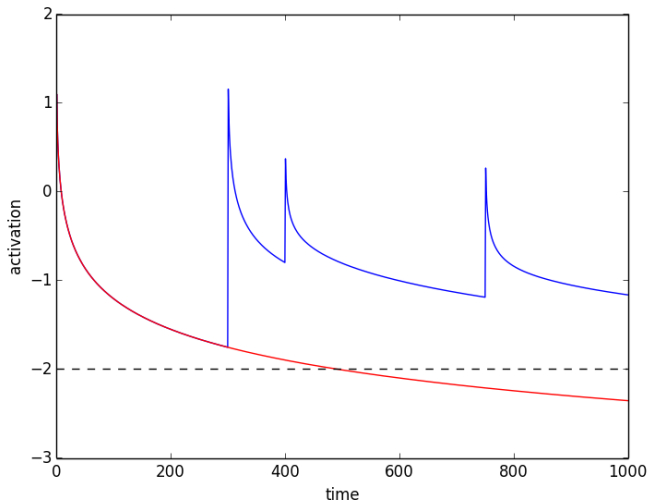# Semantic Memory Retrieval

Semantic Memory Retrieval

Semantic Memory Retrieval

Semantic Memory Dynamics

Current Uses of Semantic Memory

Domains:

- Goal Reactivation
  - goals
- Rosie
  - action knowledge
  - linguistics knowledge
  - ...
- Construction Grammar Parser
  - constructions
  - word senses
  - ...

- Roomsworld
  - topological map
  - objects
- SoarTech projects?
- Others?

Current Uses of Semantic Memory

Domains:

- Goal Reactivation
  - goals
- Rosie
  - action knowledge
  - linguistics knowledge
  - ...
- Construction Grammar Parser
  - constructions
  - word senses
  - ...

- Roomsworld
  - topological map
  - objects
- SoarTech projects?
- Others?

- math queries
- SMem in hardware
- unified activation

Discuss!

Discuss!

- How can SMem be more useful to people?
- How should spreading activation work?
- What bias should be used in retrievals?

Feature requests?

What could people use SMem for? What do people want from SMem?

- math queries

How *should* SMem work??

- unified activation?