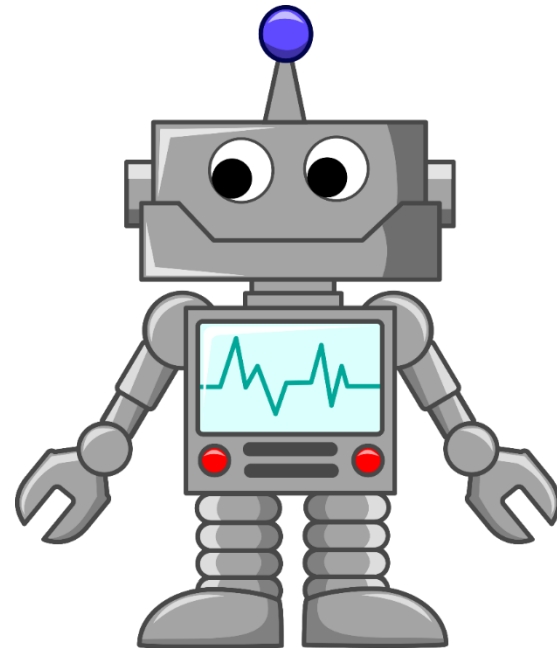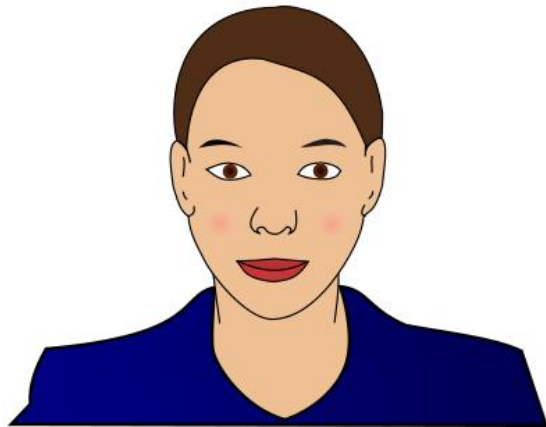# Understanding Agent Knowledge through Conversation

Preeti Ramaraj

Motivation

- Leverage existing knowledge
- Learn nuances of tasks that have been performed

Categories

- Features and relations
  - *"Is block A bigger than block B?", "Where is the red triangle?"*
- Primitive actions
  - *"What is remember?", "Can you pick up a location?"*
- Tasks
  - *"If I ask you to deliver this stapler, what are the steps you would take?"*
- Games
  - *"What actions are possible in Tower of Hanoi?*
- Concepts
  - *"What is three-in-a-row in Tic-Tac-Toe?", "Can I place an X on this location that is not clear?"*
- Experiences
  - *"What object did you last deliver?", "When did you last lose at Tic-Tac-Toe?"*

Current working example
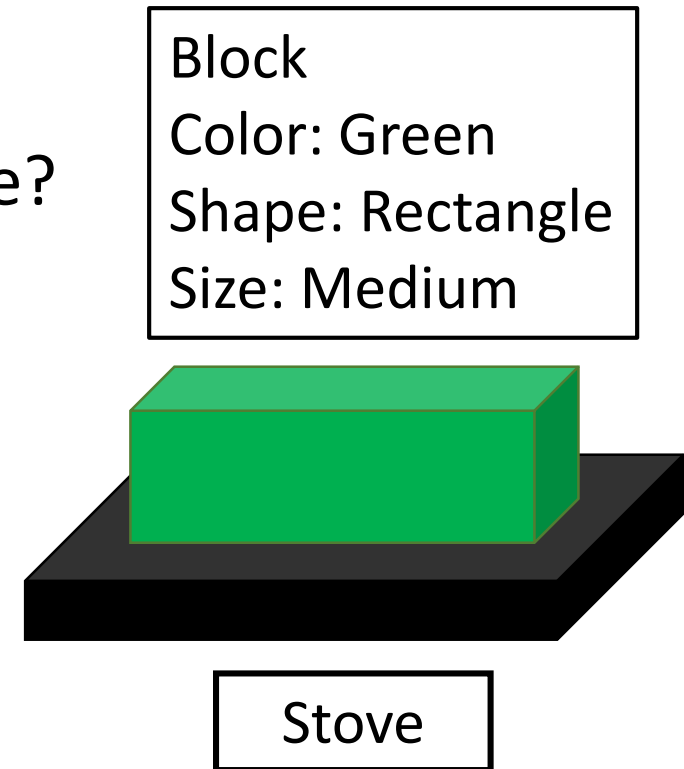
Instructor - What is on the stove?

Rosie – A medium green rectangle

Instructor – What is the color of the block on the stove?

Rosie – The color is green.

Instructor – What shape is the object on the stove?

Rosie – The shape is rectangle.

Block
Color: Green
Shape: Rectangle
Size: Medium

Stove

Looking ahead

- Explain how to play a game step-by-step

- Handle hypothetical scenarios
    - "What would you do if you don't find the location?"

- Complete description given a partial input

Questions?