

# AdaptBot: Supplementary Material

## Contents

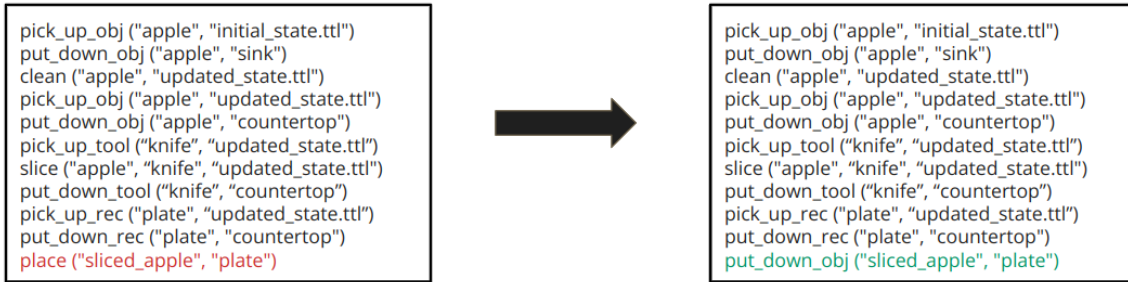
|          |  |          |
|----------|--|----------|
| <b>1</b> | <b>Question asked during Knowledge Expansion</b> | <b>2</b> |
| 1.1      | Question asked for unknown action . . . . .      | 2        |
| 1.2      | Question asked for unknown item . . . . .        | 2        |
| <b>2</b> | <b>Results for other LLMs</b>                    | <b>4</b> |

# 1 Question asked during Knowledge Expansion

## 1.1 Question asked for unknown action

Revising action name.

- **Robot:** I do not know how to execute action '*place*', am I mistaking it for another action? Please answer in 'Yes' or 'No'.
- **Human:** Yes
- **Robot:** Please revise the action name
- **Human:** put\_down\_obj



Removing unexecutable action.

- **Robot:** I do not know how to execute action '*squeeze*', am I mistaking it for another action? Please answer in 'Yes' or 'No'.
- **Human:** No



## 1.2 Question asked for unknown item

Adding an item to  $G_s$  and  $G_k$ .

Example 1

- **Robot:** Item '*mango*' is not present in my knowledge base. Is it present in the environment? Please answer in 'Yes' or 'No'. If I am mistaking it for another item, please enter 'correct\_item'.
- **Human:** Yes.
- **Robot:** What kind of item is '*mango*'? Choose from: 'edible\_object', 'receptacle', 'tool'.
- **Human:** edible\_object

- **Robot:** What is the location of the object?
- **Human:** Fridge
- **Robot:** Is it sliceable? Please answer in 'True' or 'False'.
- **Human:** True
- **Robot:** Is it boilable? Please answer in 'True' or 'False'.
- **Human:** False
- **Robot:** Is it fryable? Please answer in 'True' or 'False'.
- **Human:** False
- **Robot:** Does this object needs cleaning? Please answer in 'True' or 'False'.
- **Human:** True

## Example 2

- **Robot:** Item '*bowl*' is not present in my knowledge base. Is it present in the environment? Please answer in 'Yes' or 'No'. If I am mistaking it for another item, please enter 'correct\_item'.
- **Human:** Yes.
- **Robot:** What kind of item is '*bowl*'? Choose from: 'edible\_object', 'receptacle', 'tool'.
- **Human:** receptacle
- **Robot:** What is the location of the object?
- **Human:** Cabinet
- **Robot:** Is receptacle sensitive? Please answer in 'True' or 'False'.
- **Human:** True
- **Robot:** Can this receptacle be used for slicing on? Please answer in 'True' or 'False'.
- **Human:** False
- **Robot:** Does this receptacle needs cleaning? Please answer in 'True' or 'False'.
- **Human:** True

## Example 3

- **Robot:** Item '*fork*' is not present in my knowledge base. Is it present in the environment? Please answer in 'Yes' or 'No'. If I am mistaking it for another item, please enter 'correct\_item'.
- **Human:** Yes.
- **Robot:** What kind of item is '*fork*'? Choose from: 'edible\_object', 'receptacle', 'tool'.
- **Human:** tool
- **Robot:** What is the location of the object?

- **Human:** rack
- **Robot:** Is it a slicing tool? Please answer in 'True' or 'False'.
- **Human:** False
- **Robot:** Does this tool needs cleaning? Please answer in 'True' or 'False'.
- **Human:** True

Revising the item name.

- **Robot:** Item '*sauce*' is not present in my knowledge base. Is it present in the environment? Please answer in 'Yes' or 'No'. If I am mistaking it for another item, please enter 'correct\_item'.
- **Human:** correct\_item.
- **Robot:** Please revise the object name.
- **Human:** ketchup

Item isn't present in the environment.

- **Robot:** Item '*grapes*' is not present in my knowledge base. Is it present in the environment? Please answer in 'Yes' or 'No'. If I am mistaking it for another item, please enter 'correct\_item'.
- **Human:** No.



## 2 Results for other LLMs

will update very soon..