

Search

INTRODUCTION

Installation

Multi-goal API

ENVIRONMENTS

Fetch

Shadow Dexterous Hand

Maze

Adroit Hand

Franka Kitchen

Franka Kitchen

MaMuJoCo (Multi-Agent MuJoCo)

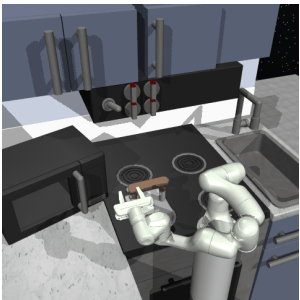
DEVELOPMENT

Github

Release Notes

Franka Kitchen

Multitask environment in which a 9-DoF Franka robot is placed in a kitchen containing several common household items. The goal of each task is to interact with the items in order to reach a desired goal configuration.



Franka Kitchen

The tasks can be selected when the environment is initialized passing a list of tasks to the `tasks_to_complete` argument as follows:

```
import gymnasium as gym

env = gym.make('FrankaKitchen-v1', tasks_to_complete=['microwave', 'kettle'])
```

The possible tasks to complete are:

Task	Description
bottom burner	twist control knob to activate bottom left burner in the stove.
top burner	twist control knob to activate top left burner in the stove.
light switch	move a lever switch to turn on a light over the burners.
slide cabinet	slide open the cabinet door.
hinge cabinet	open a hinge cabinet door.
microwave	open the microwave door.
kettle	move the kettle from the bottom burner to the top burner.

References

These environments were first introduced in [“Relay Policy Learning: Solving Long-Horizon Tasks via Imitation and Reinforcement Learning”](#) by Abhishek Gupta, Vikash Kumar, Corey Lynch, Sergey Levine, Karol Hausman, and later modified in [“D4RL: Datasets for Deep Data-Driven Reinforcement Learning”](#) by Justin Fu, Aviral Kumar, Ofir Nachum, George Tucker, Sergey Levine. Both publications can be cited as follows:

```
@article{gupta2019relay,
  title={Relay policy learning: Solving long-horizon tasks via imitation and reinforcement learning},
  author={Gupta, Abhishek and Kumar, Vikash and Lynch, Corey and Levine, Sergey and Hausman, Karol},
  journal={arXiv preprint arXiv:1910.11956},
  year={2019}
}
```

```
@misc{fu2020d4rl,
  title={D4RL: Datasets for Deep Data-Driven Reinforcement Learning},
  author={Justin Fu and Aviral Kumar and Ofir Nachum and George Tucker and Sergey Levine},
  year={2020},
  eprint={2004.07219},
  archivePrefix={arXiv},
  primaryClass={cs.LG}
}
```