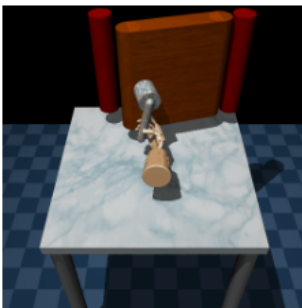


Environments document

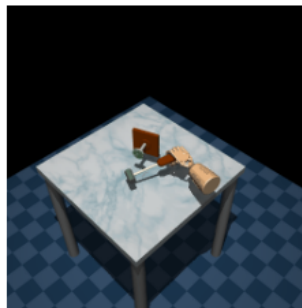
Environments 소개

실험 환경은 gymnasium robotics의 Adroit_Hand을 사용함.

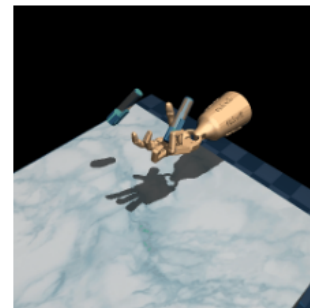
- **AdroitHandDoor-v1** : The hand has to open a door with a latch.
- **AdroitHandHammer-v1** : The hand has to hammer a nail inside a board.
- **AdroitHandPen-v1** : The hand has to manipulate a pen until it achieves a desired goal position and rotation.
- **AdroitHandRelocate-v1** : The hand has to pick up a ball and move it to a target location.



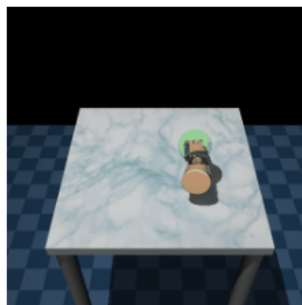
[Adroit Door](#)



[Adroit Hammer](#)



[Adroit Pen](#)



[Adroit Relocate](#)

→ Ardoit Pen(baseline)과 Adroit Hammer를 1차 실험 환경으로 선택함.

Environments 설치/실행 방법

- Ubuntu OS (추천, window나 IOS로는 안 해봐서 모르겠다.)
- Anaconda 가상환경 설치
 - python 버전 3.10을 추천 (3.11은 작동 X)
- Gymnasium, Mujoco, mujoco-py, Gymnasium-Robotics 설치
- Gymnasium에 Adroit Hand 환경 등록 (기존 Gymnasium에는 등록X)
 - Gymnasium/gymnasium/envs/__init__.py에 register_environment.py에 작성된 코드 추가
- environment_test.py로 원하는 환경 이름 설정 후 실행