

Expert Agent

Download datasets

- minari document, bair datasets을 이용해서 데이터셋을 다운로드 받을 수 있음.

```
$ minari download pen-cloned-v2 door-human-v2
```

Downloading pen-expert-v2 from Farama servers...

```
* Downloading data file 'pen-expert-v2/data/main_data.hdf5' ...
```

100%

Dataset pen-expert-v2 downloaded to /.minari/datasets/pen-expert-v2

Downloading door-human-v2 from Farama servers...

```
* Downloading data file 'door-human-v2/data/main_data.hdf5' ...
```

100%

Dataset door-human-v2 downloaded to /.minari/datasets/pen-expert-v2

Expert Agent

- 오프라인 강화학습, 모방학습 알고리즘을 통해 데이터셋을 학습한 expert agent 생성
- 온라인 강화학습 알고리즘은 데이터셋을 사용하는 방식이 아니라 사용할 수 없음

Debug

- minari에서 제공하는 IQL 알고리즘을 사용하는 경우 발생하는 여러 디버깅 방법

```

File "/home/railab/Gymnasium-0.29.1/gymnasium/envs/mujoco/mujoco_env.py", line
409, in render
    return self.mujoco_renderer.render(
File "/home/railab/Gymnasium-0.29.1/gymnasium/envs/mujoco/mujoco_rendering.py"
, line 646, in render
    viewer = self._get_viewer(render_mode=render_mode)
File "/home/railab/Gymnasium-0.29.1/gymnasium/envs/mujoco/mujoco_rendering.py"
, line 686, in _get_viewer
    self.viewer = OffScreenViewer(self.model, self.data)
File "/home/railab/Gymnasium-0.29.1/gymnasium/envs/mujoco/mujoco_rendering.py"
, line 144, in __init__
    super().__init__(model, data, width, height)
File "/home/railab/Gymnasium-0.29.1/gymnasium/envs/mujoco/mujoco_rendering.py"
, line 61, in __init__
    self.con = mujoco.MjtContext(self.model, mujoco.MjtFontScale.MJFONTSCALE_150
)
mujoco.FatalError: gladLoadGL error
(minari) railab@railab:~/ExpertDatasets_Project$

```

- 발생하는 에러

mujoco.FatalError: gladLoadGL error

- 해결 방법

1. Gymnasium down grade

a. gymnasium 버전을 0.29.1로 설치

v0.29.1

A minimal release that fixes a warning produced by `Wrapper.__getattr__`.
In particular, this function will be removed in v1.0.0 however the reported solution for this was incorrect and the updated solution still caused the warning to show (due to technical python reasons).

2. 특정 버전 mujoco 설치

- a. mujoco대신 옛날 버전 mjpro131 설치 <https://www.roboti.us/download.html>