

What is xLand-minigrid?

Along with the environments, XLand-MiniGrid provides pre-sampled benchmarks with millions of unique tasks of varying difficulty and easy-to-use baselines that allow users to quickly start training adaptive agents.

What is xLand-minigrid environment interface?

Similar to Jumanji (Bonnet et al.,2023),XLand-MiniGrid Environment interface is inspired by the dm_env API(Muldal et al.,2019),which is particularly well suited for the meta-RL,as it separates episodes from trials by design (see Section D.1). Thus,each environment should provide jit-compatible reset,reset_trial and step methods.

How many rules can xLand-minigrid use?

Full-scale XLand environment can use more than five rulesaccording to the Team et al. (2023). To test XLand-MiniGrid in similar conditions we report simulation throughput varying number of rules. For testing purposes we just replicated same NEAR rule multiple times in the PutNear environment.

Is xLand-minigrid a asynchronous vectorization?

For single-tasks environments we consider random policy and PPO. As can be seen, compared to the commonly used MiniGrid (Chevalier-Boisvert et al., 2023) environments with gymnasium (Towers et al., 2023) asynchronous vectorization, XLand-Minigrid achieves at least 10x faster throughput reaching tens of millions of steps per second.

Written in JAX, XLand-MiniGrid is designed to be highly scalable and can potentially run on GPU or TPU accelerators, democratizing large-scale experimentation with limited resources. Along ...

Abstract: We present XLand-Minigrid, a suite of tools and grid-world environments for meta-reinforcement learning research inspired by the diversity and depth of XLand and the simplicity ...

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Malta xland minigrid

Virtual'naya sreda XLand-MiniGrid, v kotoroj II obuchaetsya priniimat' resheniya i vy`polnyat' novy`e dejstviya, sozdana gruppoj uchyony`x iz laboratorii nauchny`x ...

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