Xland minigrid The Netherlands

Is xLand-minigrid scalable?
esearch. Written in JAX,XLand-MiniGrid is designed to be highly scalableand capable of running on GPU or TPU accelerators,and can achieve millions of steps pe second. In addition,we have implemented easy-to-use baselines and provided preliminary analysis of their performance and generalization,showing that the proposed benchmarks are cha

Can xLand-minigrid help practitioners perform meta-reinforcement learning experiments faster?
ck time. While we do not introduce any novel algorithmic improvements in our work, we hope that the proposed highly scalable XLand-MiniGrid environments will help practitioners perform meta-reinforcement learning experiments at scale faster and with fewer r

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.

Does xLand support multi-agent simulations?
library.Compared to the full-scale XLand (Team et al.,2021,2023),we do notcurrently support multi-agent simulations,procedural generation of complex worlds,rules with multiple output entities,or goal com

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XLand-MiniGrid is a suite of tools, grid-world environments and benchmarks for meta-reinforcement learning research inspired by the diversity and depth of XLand and the simplicity and minimalism of MiniGrid. Despite the similarities, XLand-MiniGrid is written in JAX from scratch and designed to be highly scalable, democratizing large-scale ...

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