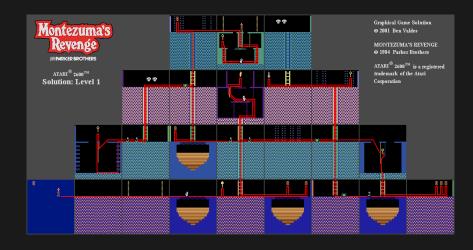


# Montezuma's Revenge



# Montezuma's Revenge



- very sparse rewards hundrets of steps
- huge state space
- hard exploration
- needs returns back

### highlighted score

name

https://papers with code. com/sota/atari-games-on-atari-2600-montez umas revenge

J Gai	Hame	000.0
2015	Deep Reinforcement Learning with Double Q-learning	0
2021	MuZero	2500
2018	Count-Based Exploration with Neural Density Models <sup>1</sup>	3705
2019	<b>Exploration by Random Network Distillation</b> <sup>2</sup>	8152
2021	GoExplore* <sup>3</sup>	43 000

#### \* : requires environment state saving/loading

 $<sup>^{1}\</sup>mathsf{https://arxiv.org/abs/1703.01310}$ 

<sup>&</sup>lt;sup>2</sup>https://arxiv.org/abs/1810.12894

<sup>&</sup>lt;sup>3</sup>https://arxiv.org/abs/2004.12919

# Q&A

