

# DRL experiments plan

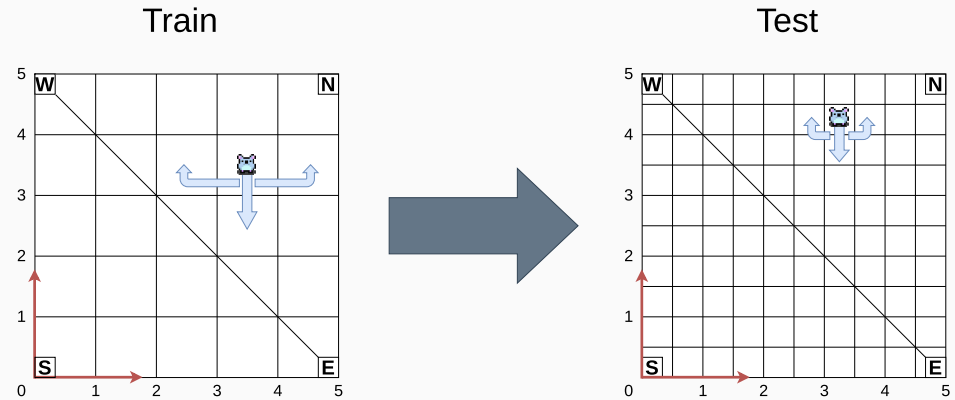
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Andrea Pierré

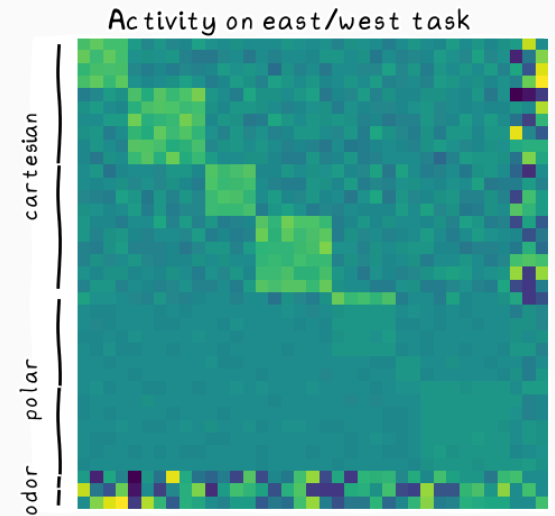
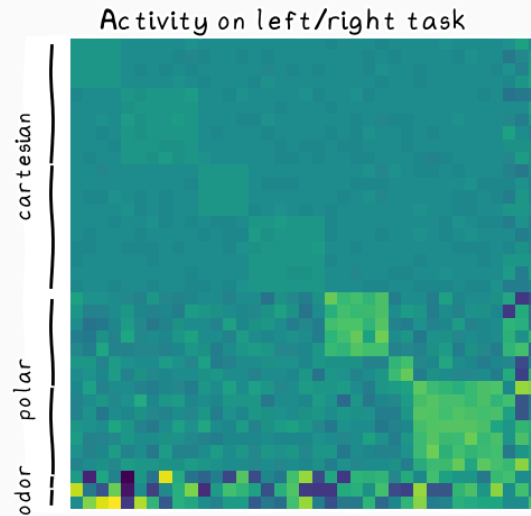
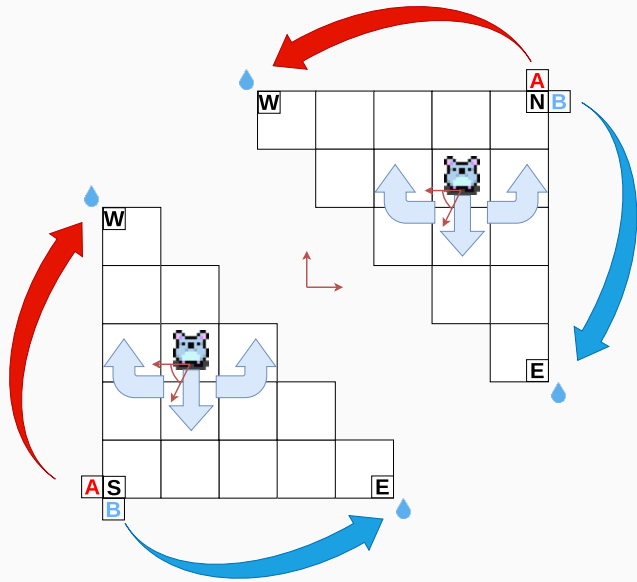
July 29, 2024

# 1) Does the network learn a coordinate system?

- Redundant spatial input? Only Cartesian/polar input?
- Expected → Same performance on the discretized version with zero shot learning
- Expected → Discretized policy looks similar



## 2) How the constraints of the task impact the representations learned?



### 3) Does having redundant spatial input make the agent more robust in a noisy environment?

- Conflicts with experiment 2?
- Train with noise?
- May need another architecture to solve this task (Generative Adversarial Network? Denoising Autoencoder?)
- Expected → Robust but degraded performance

