

DRL project status

Cartesian/polar duplicated coordinates
experiment

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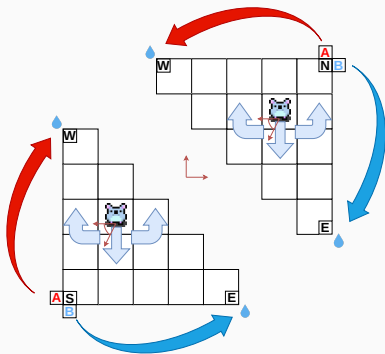
Outline

1. Current status
2. How to visualize the results?

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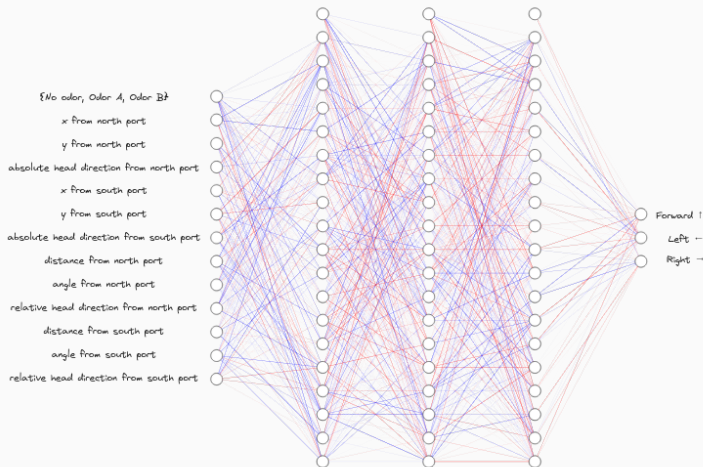
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Current status



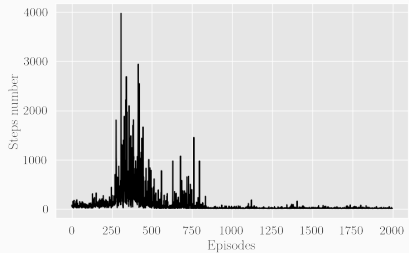
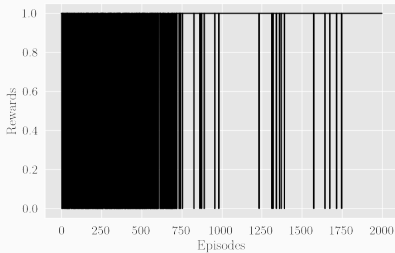
- Environment: done
- Training: WIP
- Visualization: to be improved/discussed
- Progress are slow as my bandwidth has become very limited

State space & network architecture



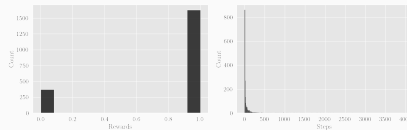
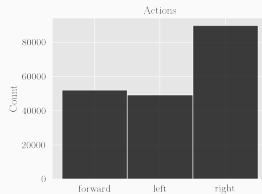
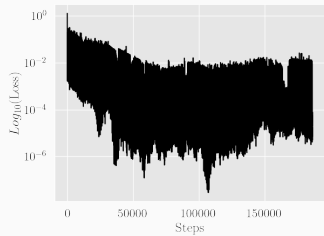
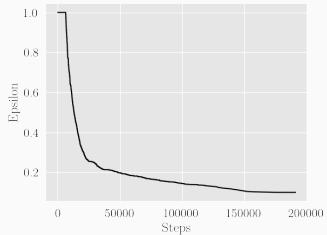
- 13 inputs + ReLU \rightarrow 512 units + ReLU \rightarrow 512 units + ReLU \rightarrow 512 units + ReLU \rightarrow 3 outputs

Training



- 8 hours of training for a single agent on the East/West task

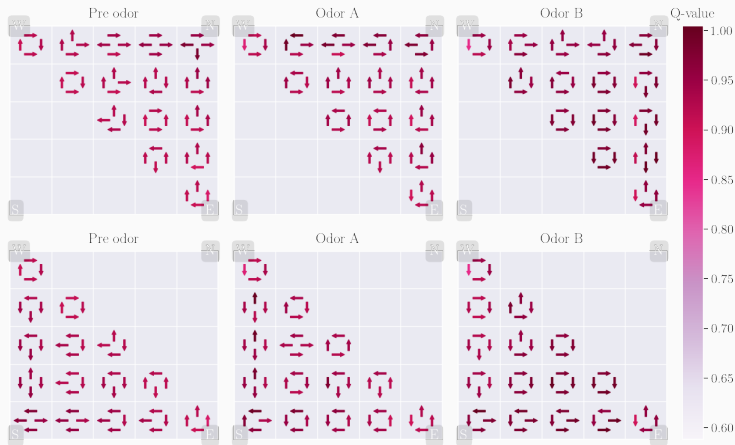
Training checks



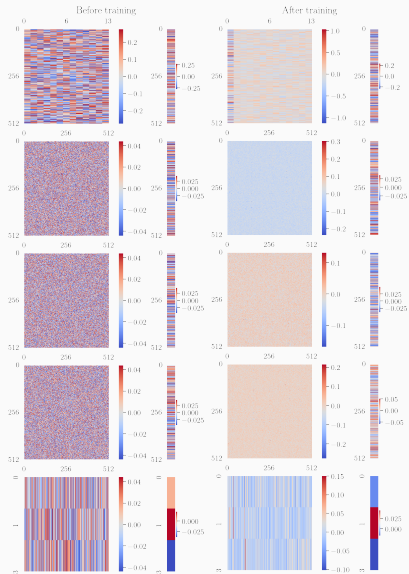
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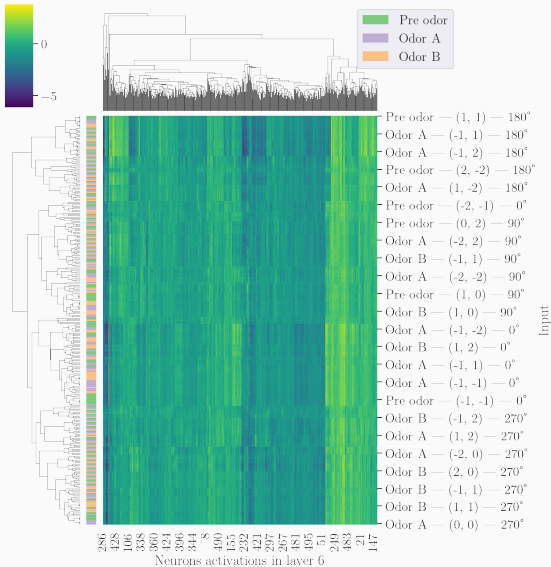
Policy learned



Weights learned



Activations learned



Thanks!