

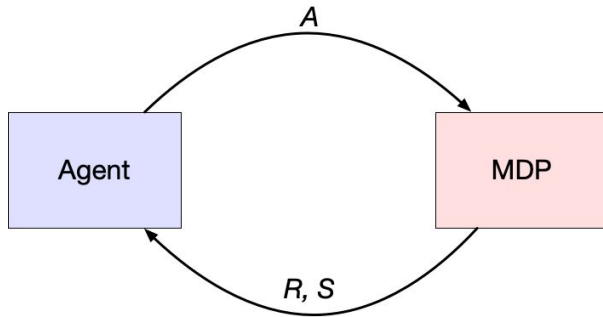
Communicating via Markov Decision Processes

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Torr, Martin Strohmeier, J. Zico Kolter, Shimon Whiteson, Jakob Foerster

Markov Coding Games

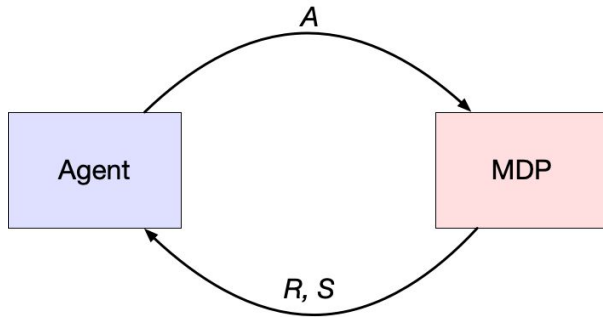
Markov Coding Games

Markov Decision Process

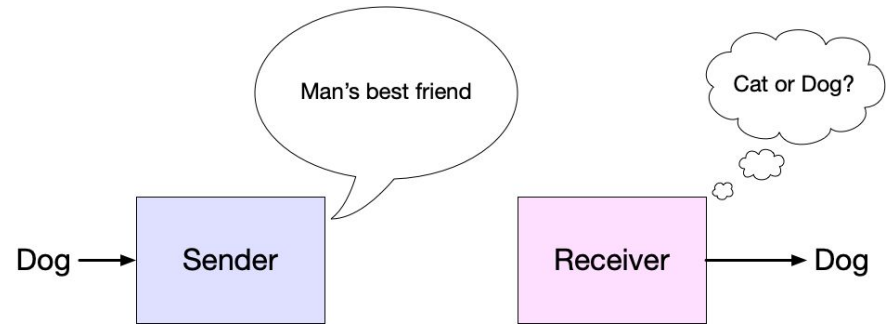


Markov Coding Games

Markov Decision Process

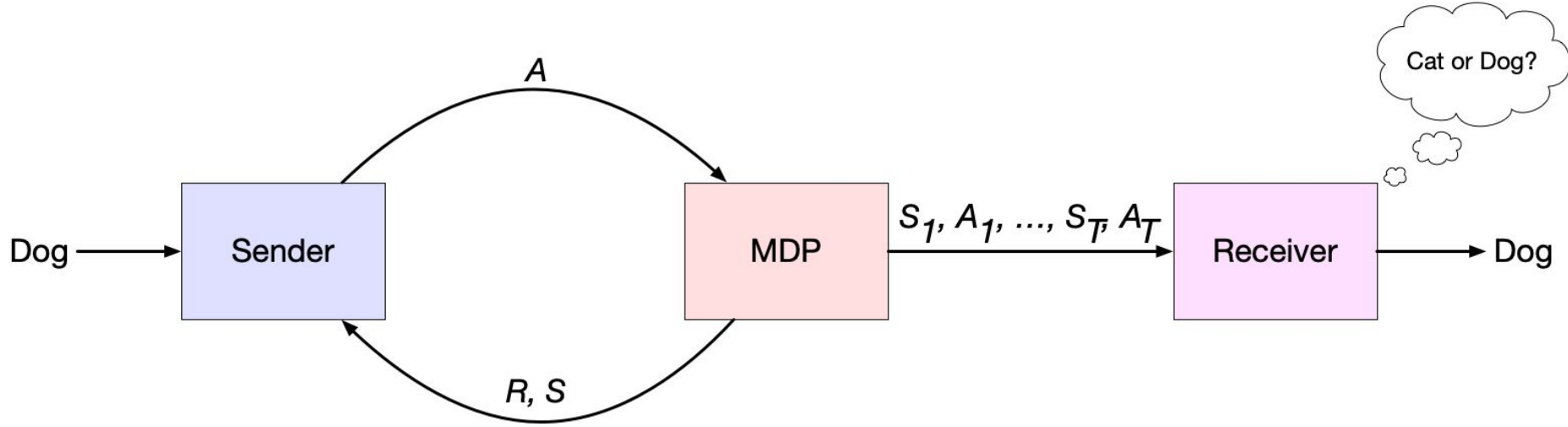


Communication Game



Markov Coding Games

Markov Coding Games



MEME

MEME

Maximum Entropy
Reinforcement Learning

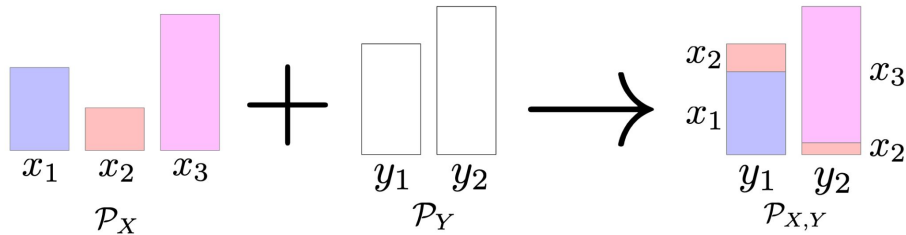
$$\max_{\pi} \mathbb{E} \left[\sum_t \mathcal{R}(S_t, A_t) + \alpha \mathcal{H}(A_t \mid S_t) \mid \pi \right]$$

MEME

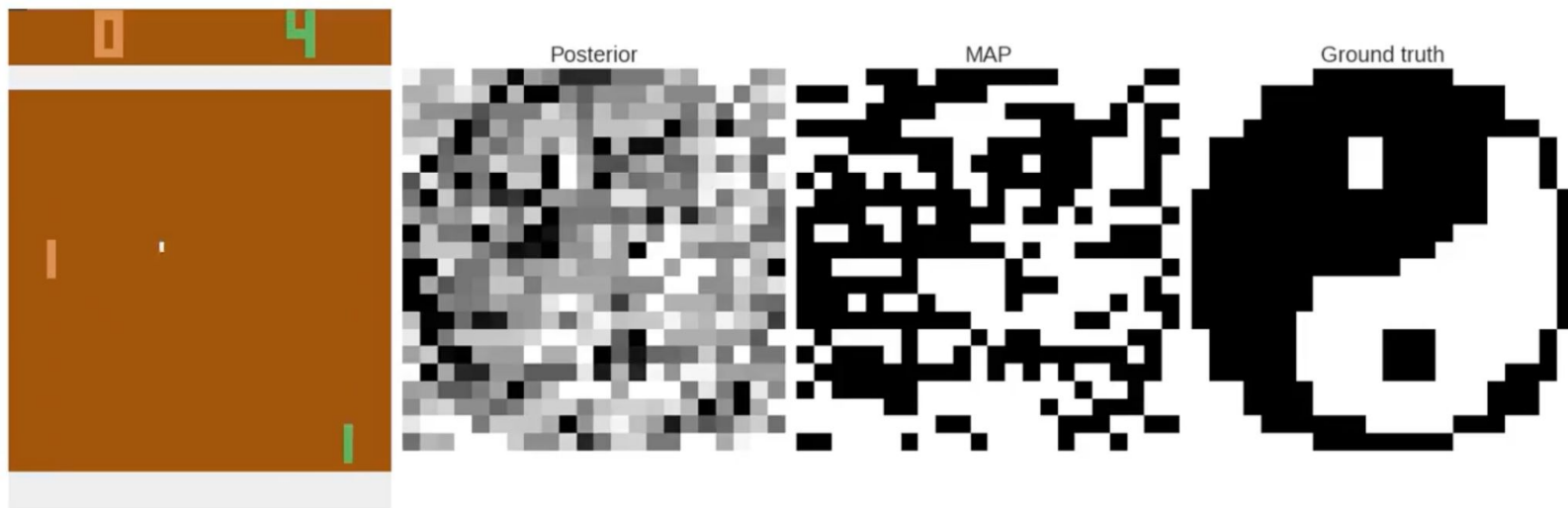
Maximum Entropy
Reinforcement Learning

$$\max_{\pi} \mathbb{E} \left[\sum_t \mathcal{R}(S_t, A_t) + \alpha \mathcal{H}(A_t \mid S_t) \mid \pi \right]$$

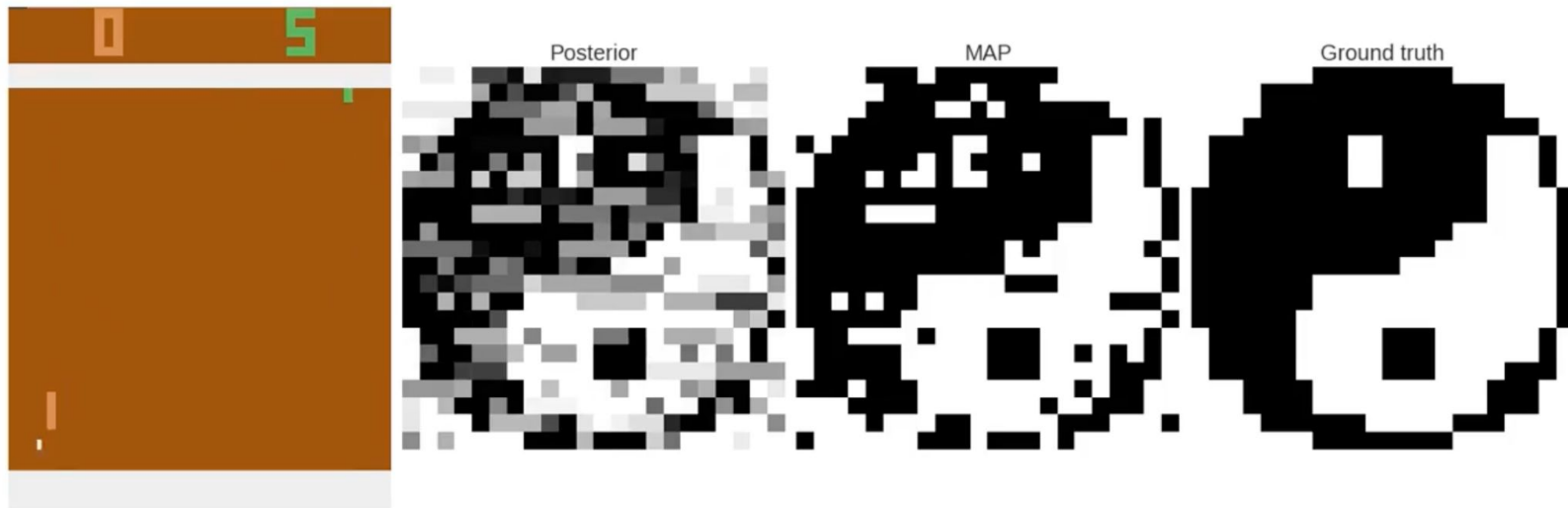
Minimum Entropy Coupling



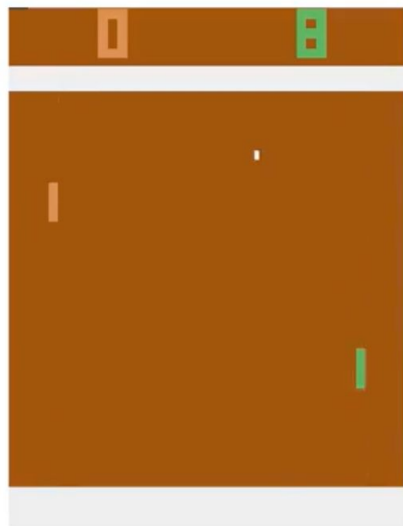
MEME



MEME



MEME



Questions?

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Wed 15:30