

FCAI

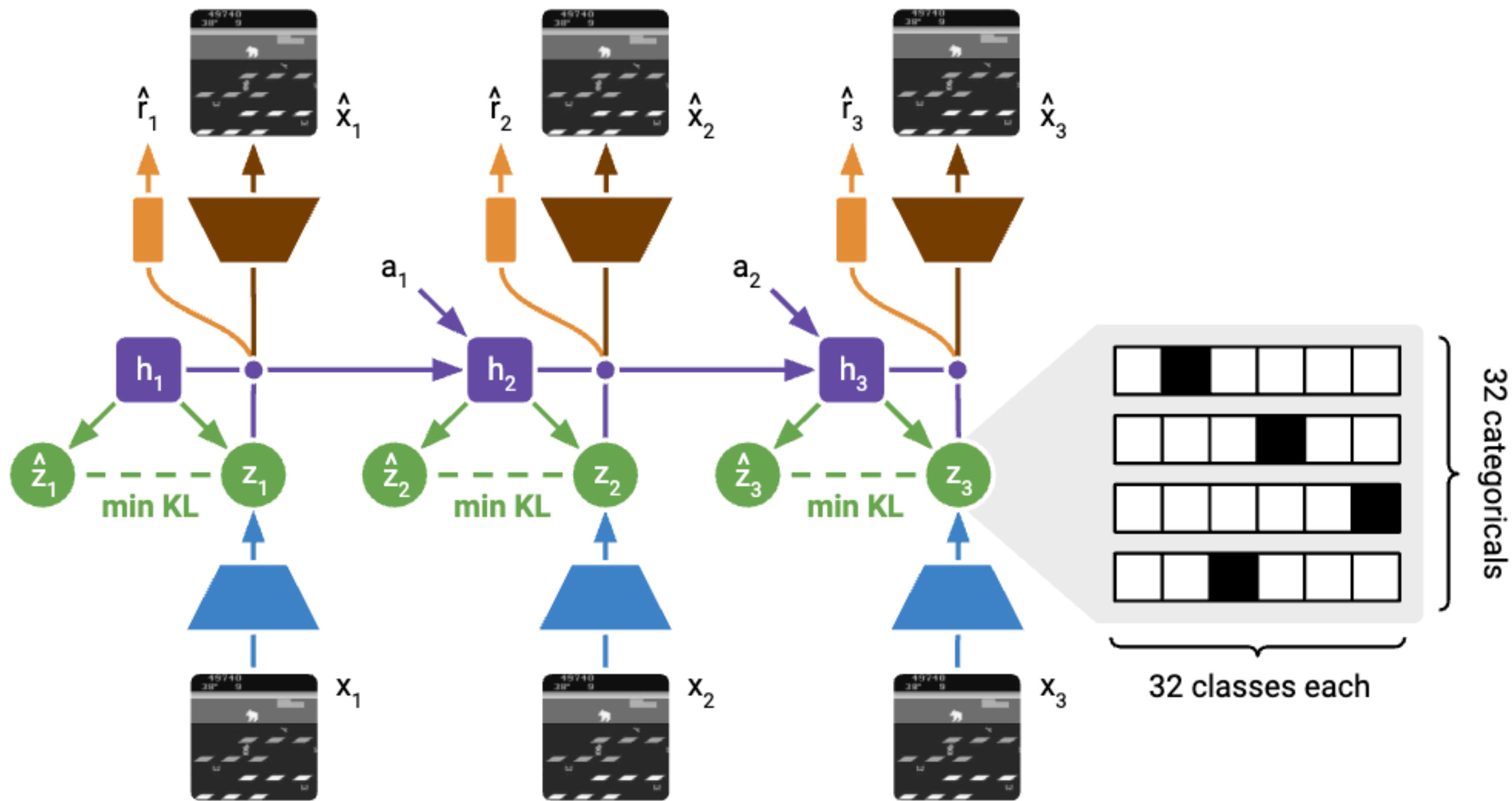
fcai.fi

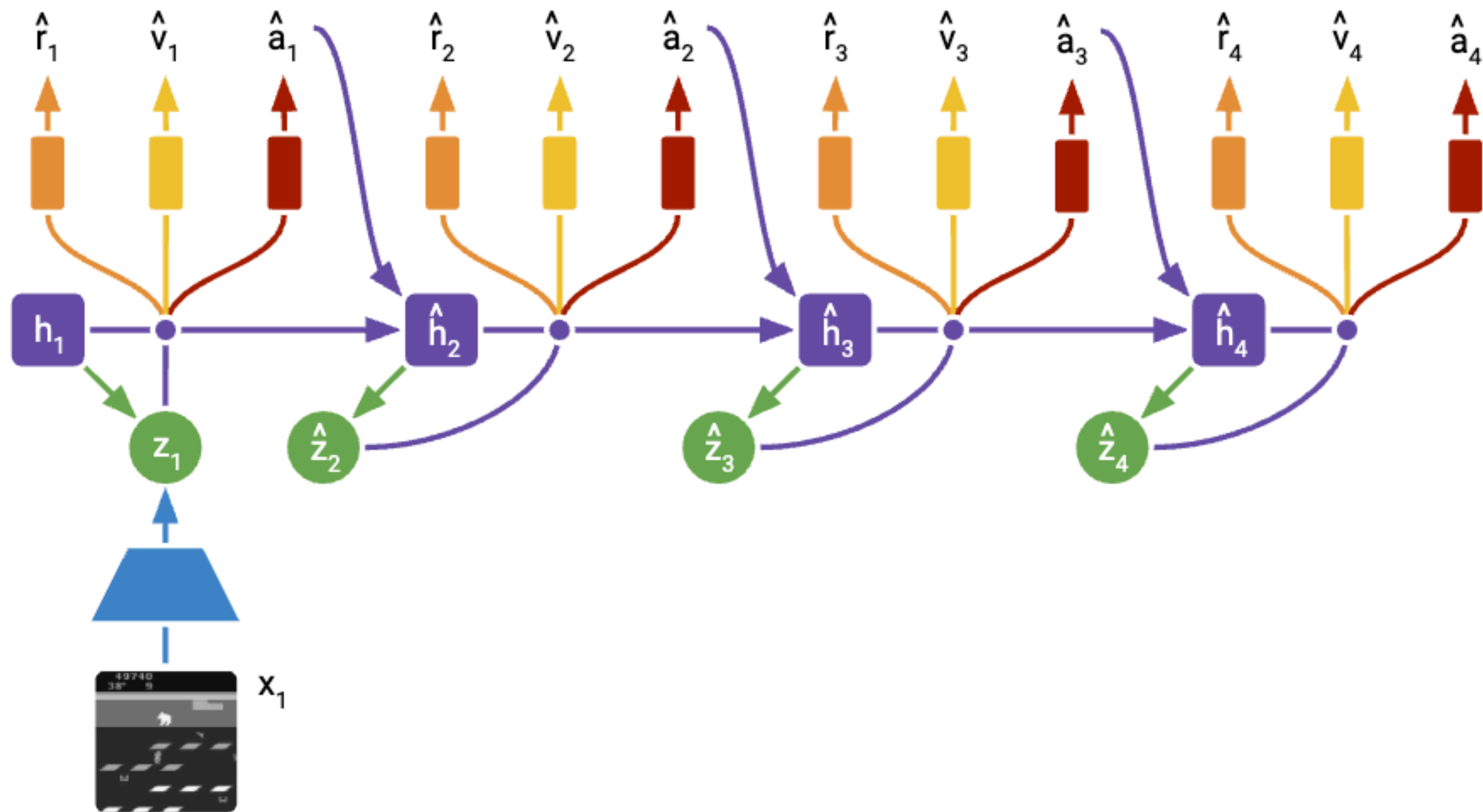
Case Study: Dreamer (v2/v3)

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Hafner et al. (2021). Mastering Atari with Discrete World Models. ICLR.





World Model Learning

Actor Critic Learning

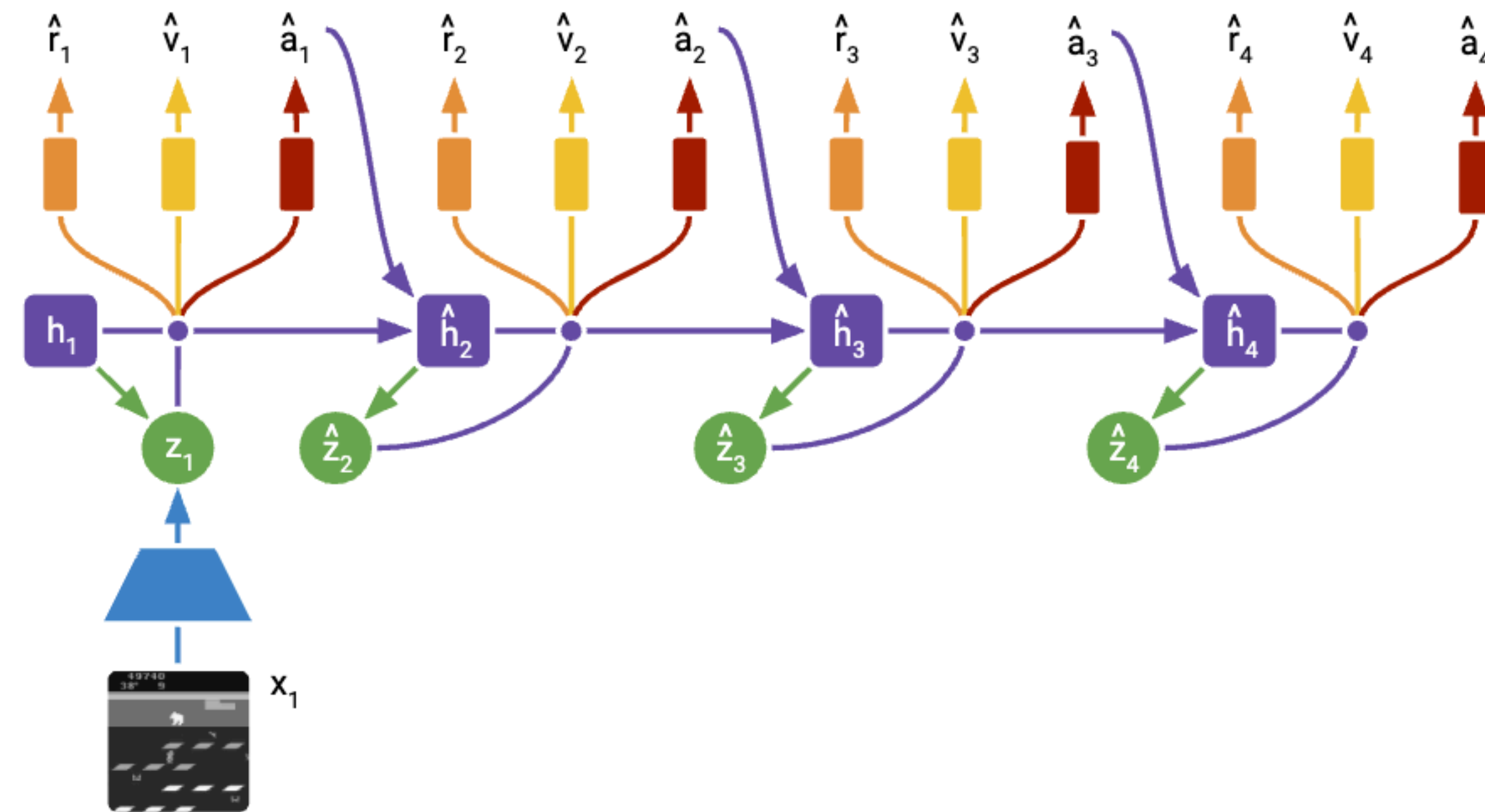
Latent dynamics with encoder/decoder

Actor $\pi_{\theta}(z)$ & critic $Q_{\theta}(z, a)$ in latent space

Actor/critic never agree “imagined” outcomes

Background planning

Case Study: Dreamer (v2/v3)



Actor Critic Learning

Latent dynamics with encoder/decoder

Actor $\pi_\theta(z)$ & critic $Q_\theta(z, a)$ in latent space

Actor/critic leverage “imagined” outcomes

Background planning

Case Study: TD-MPC2

