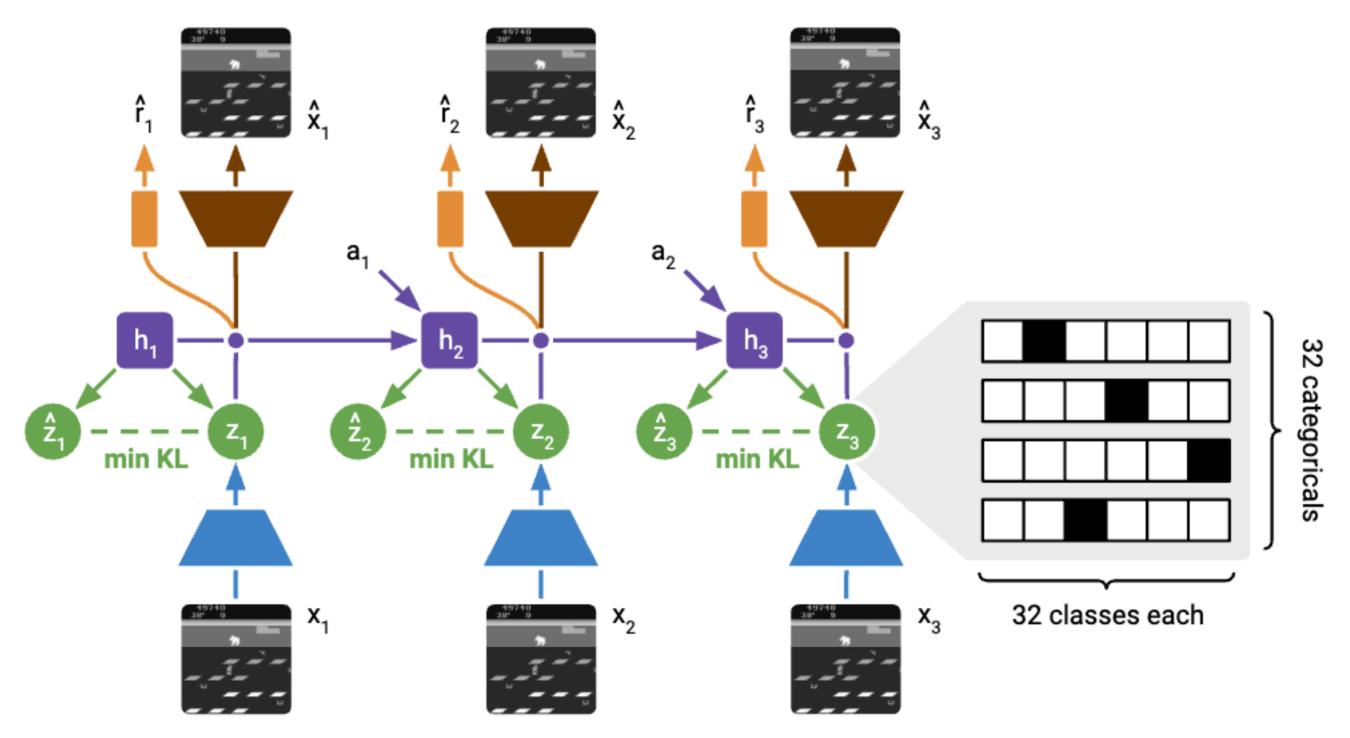
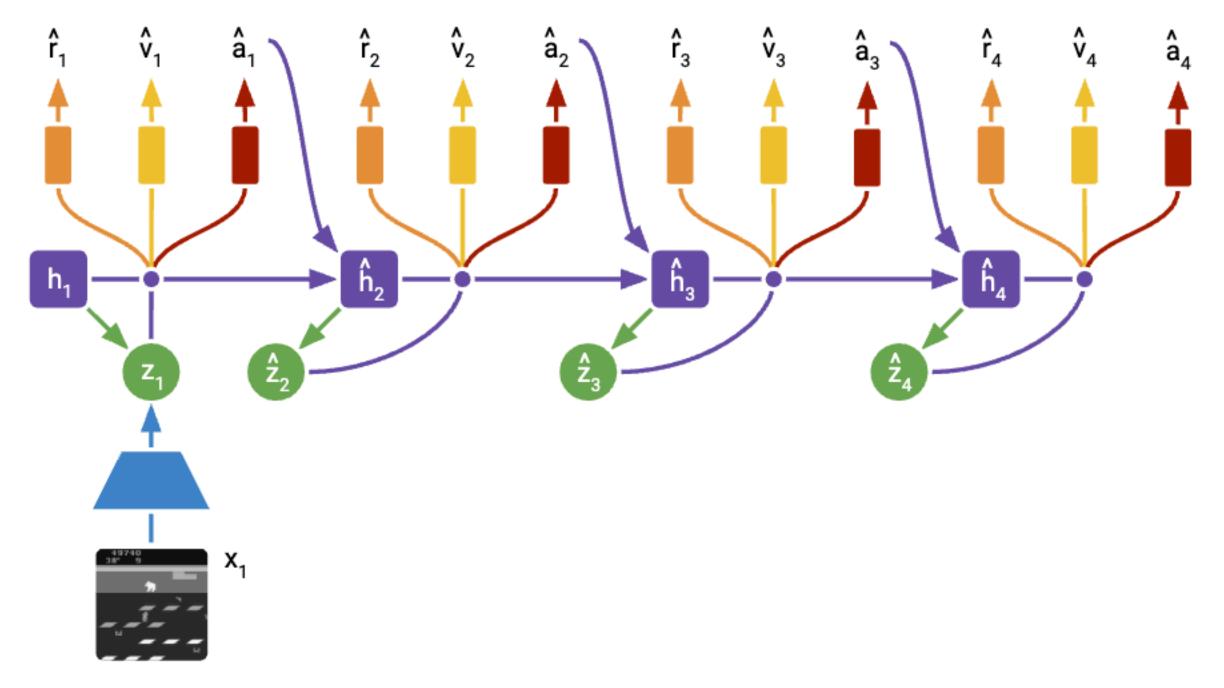
### FCAI fcai.fi

# Case Study: Dreamer (v2/v3)

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





## World Model Learning

## Actor Critic Learning

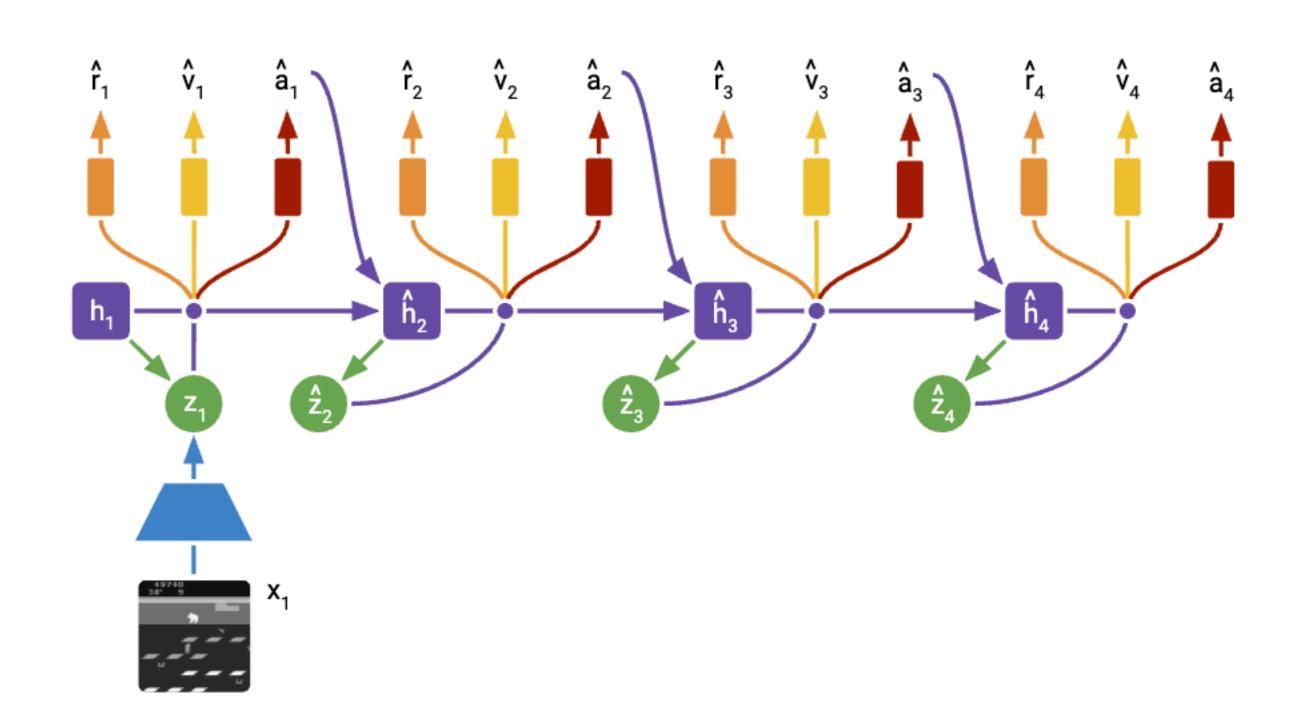
### Latent dynamics with encoder/decoder

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

### Actor/critic leverage "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

