

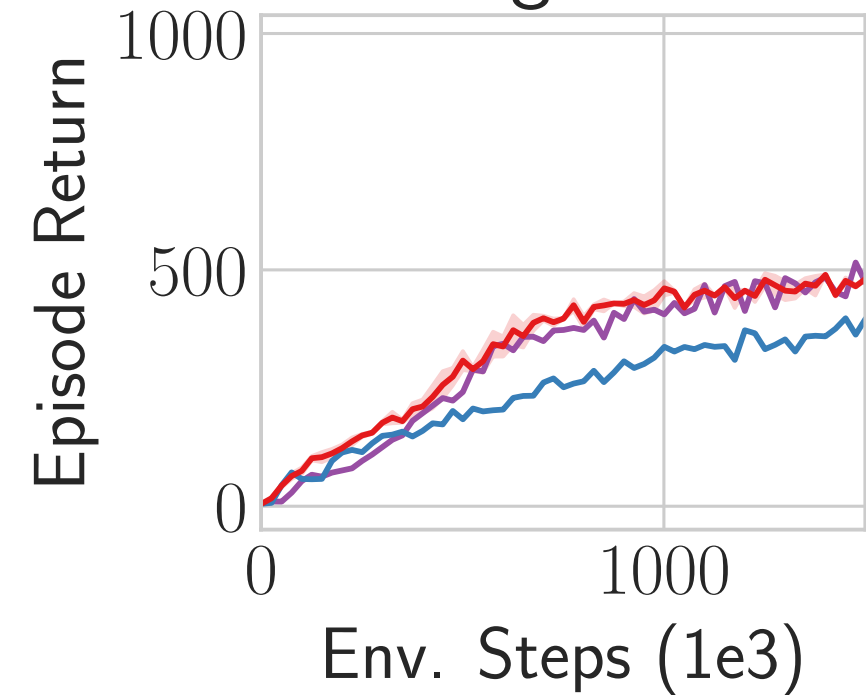
FCAI

fcai.fi

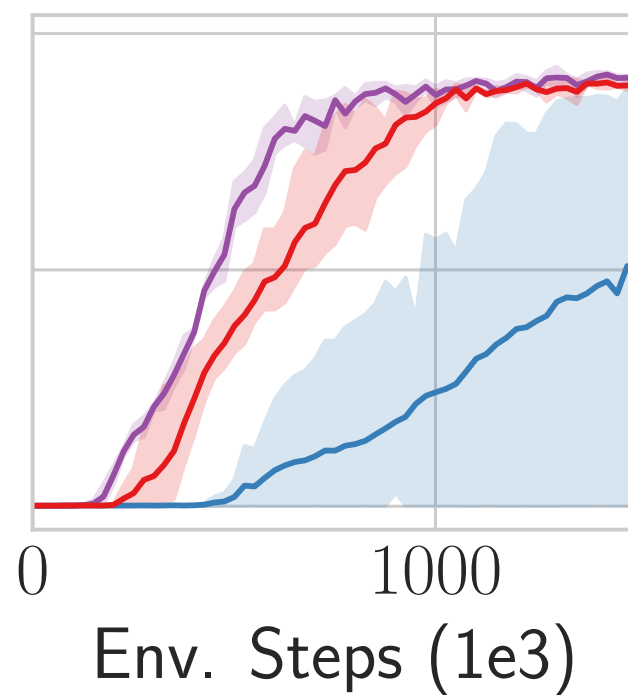
Comparison of Different Encoding



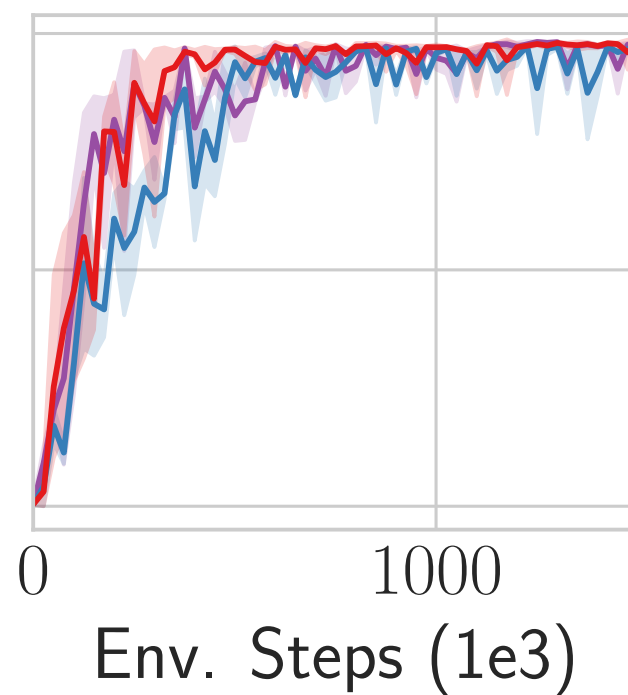
Dog Run



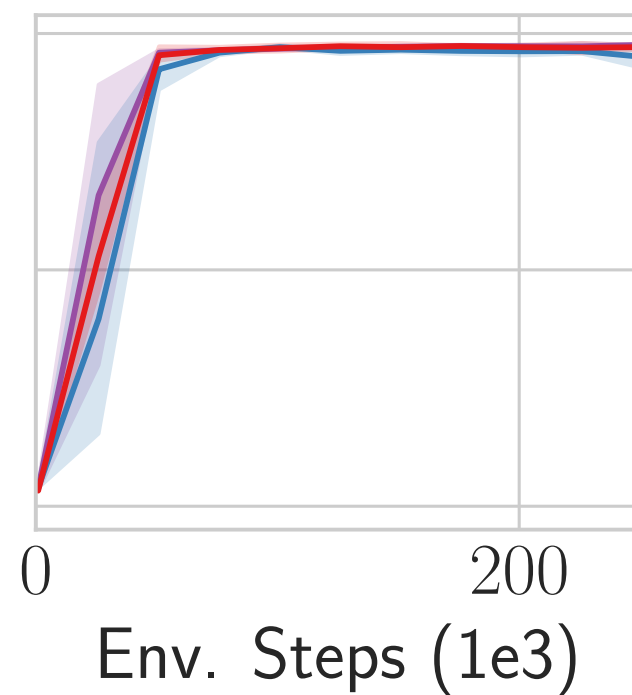
Humanoid Walk



Reacher Hard



Walker Walk



Codes



Labels



One-hot

Codebook \mathcal{C}

$c(1)$



$c(2)$



$c(3)$




$c(|\mathcal{E}|)$





Number of
channels

$$b = 2$$



Number of
codes in
codebook
 $|\mathcal{C}| = 15$

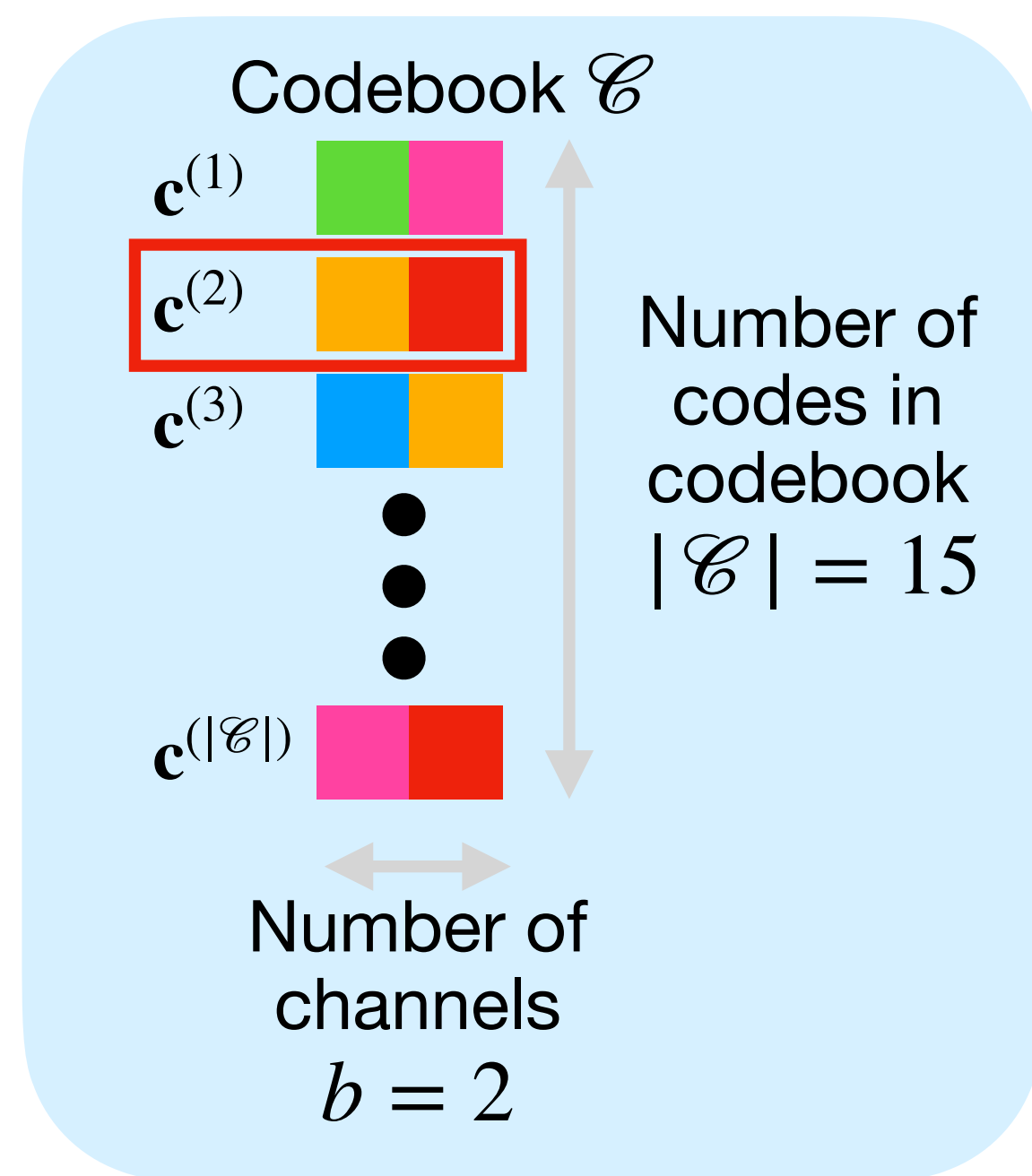
$$e_{one-hot} = \{0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0\}$$

$$\text{eccode} = c^{(2)} = \{-0.5, 1\}$$

elaberi = 2



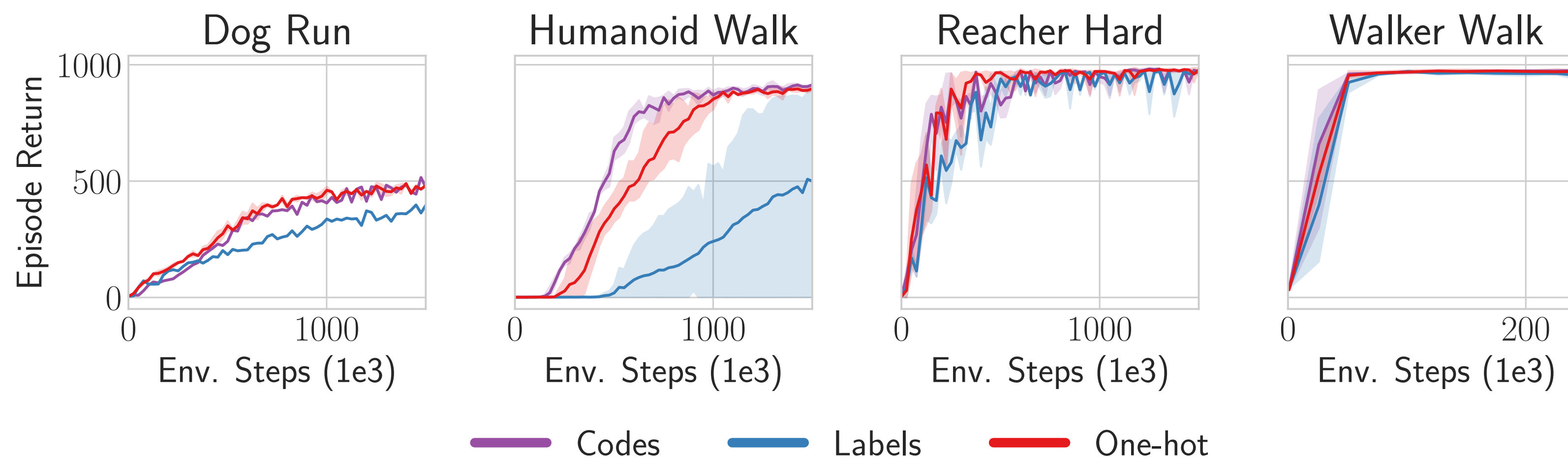
Comparison of Different Discrete Encodings



$$e_{\text{code}} = c^{(2)} = \{-0.5, 1\}$$

$$e_{\text{label}} = 2$$

$$e_{\text{one-hot}} = \{0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0\}$$



Results: Latent Space Size

DCWM is Fairly Robust to its Latent Space Size

