

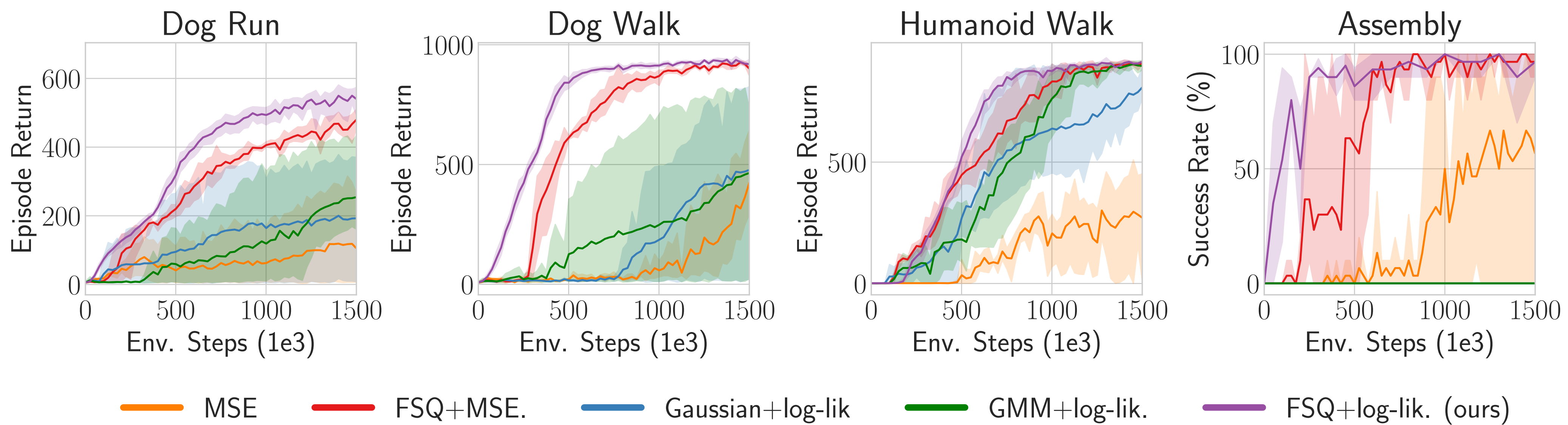
FCAI

fcai.fi

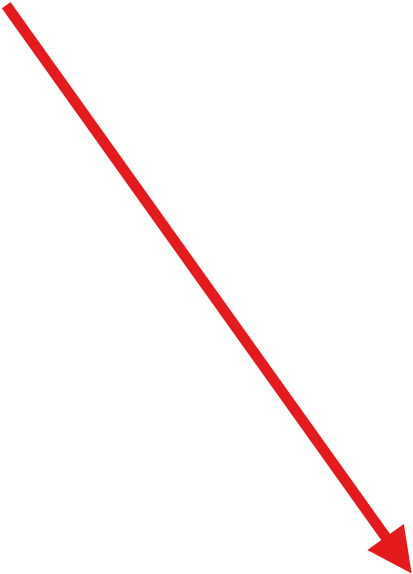
Why Does CWMM Work So Well?

Combination of Discrete Representation and Cross Entropy Loss



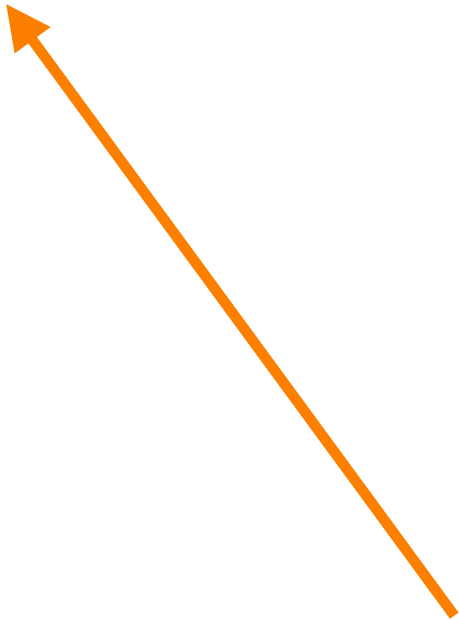


Replaced cross-entropy with MSE loss

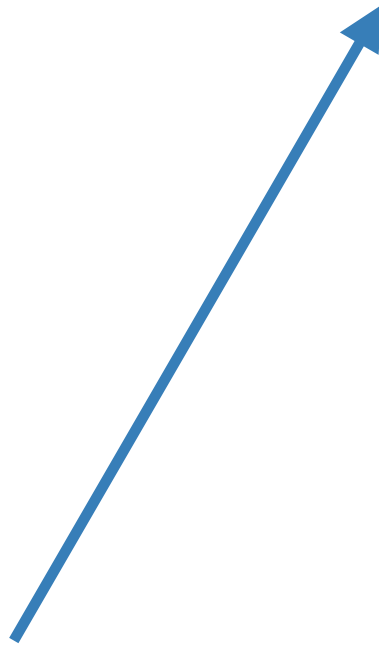


Our method

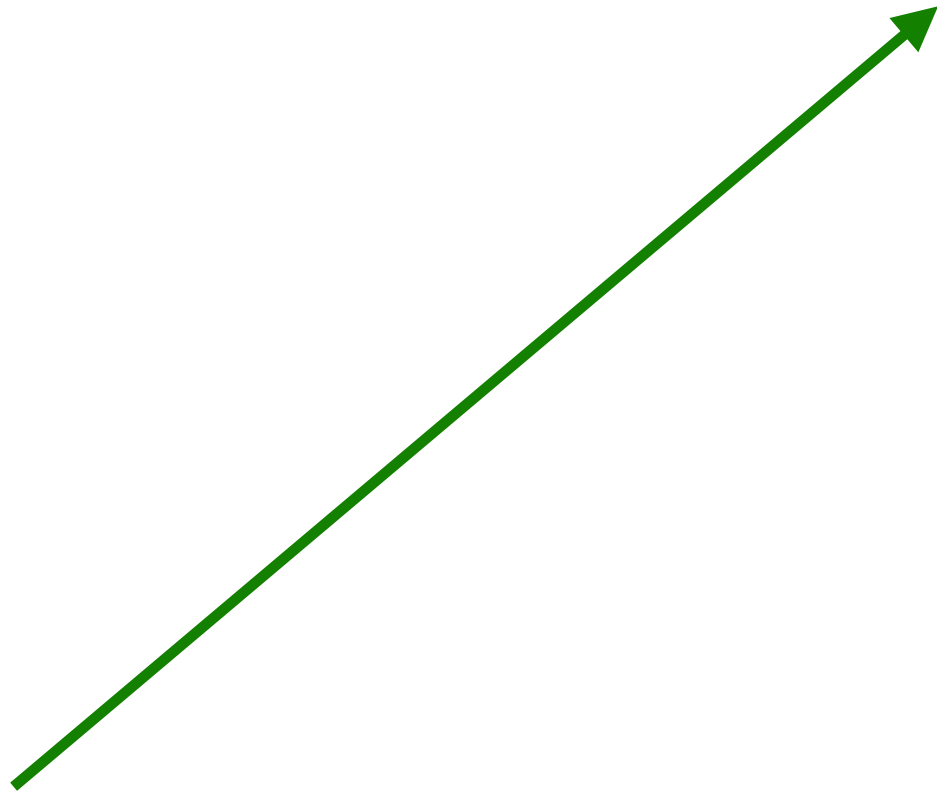




Made latent space continuous (deterministic)



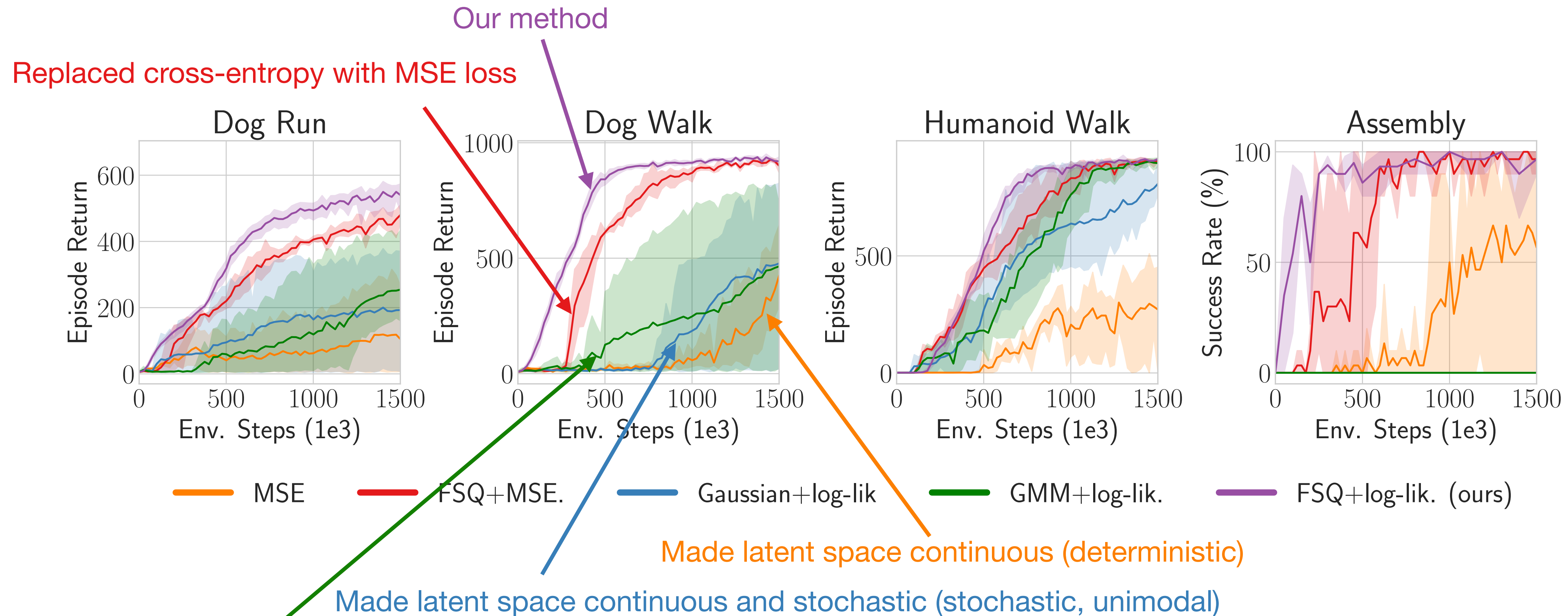
Made latent space continuous and stochastic (stochastic, unimodal)



Made latent space continuous, stochastic and multimodal

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Combination of Discrete Representation and Cross Entropy Loss



Main Takeaway:

Learning discrete codebook encodings with a self-supervised cross-entropy loss improves sample efficiency in continuous control tasks