AAIT Project - Crafter

Team:

DeQeNuvrea

Students:

Dima Alexandru

Dugăeșescu Andrei

Methods

Agents

- DQN
- DDQN
- Dueling DQN

Objective Functions

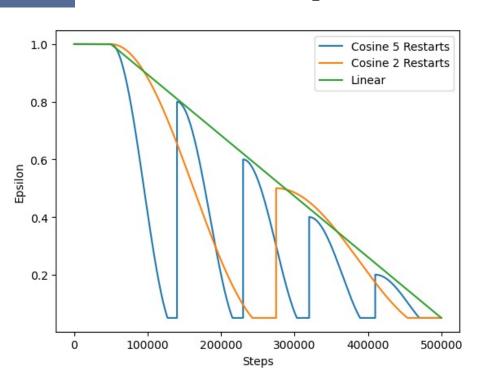
- MSE
- Munchausen

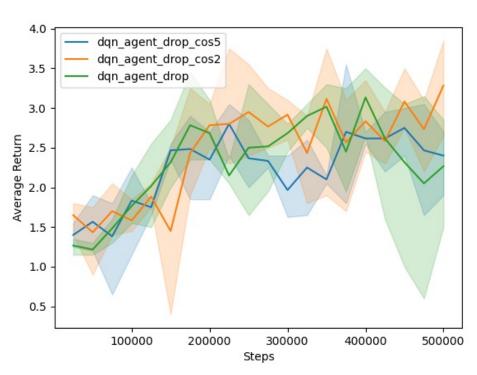
Enhancements

Starting from DQN:

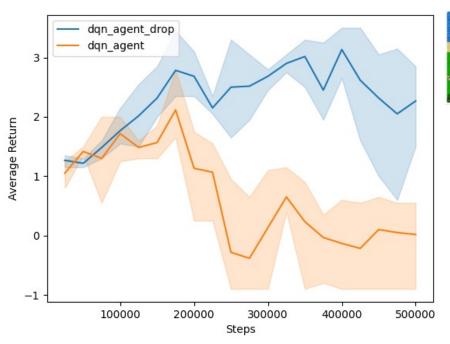
- Network Architecture (Dropout, Batch Norm)
- Exploration Policy
- Hyperparameter Tuning
- DDQN & Dueling DQN

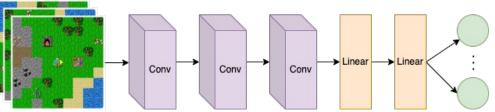
Exploration Matters





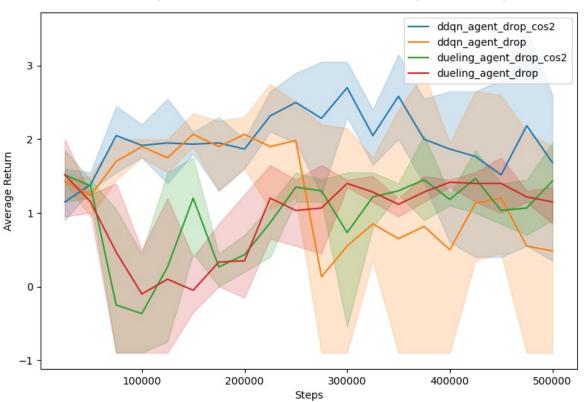
Estimator Architecture



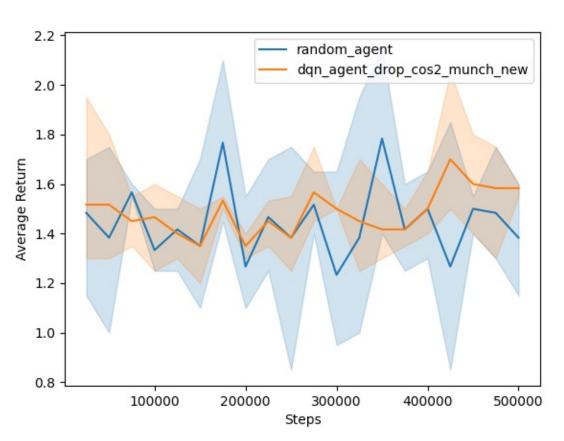


- 5-Layer CNN
- Batch Norm X
- Dropout

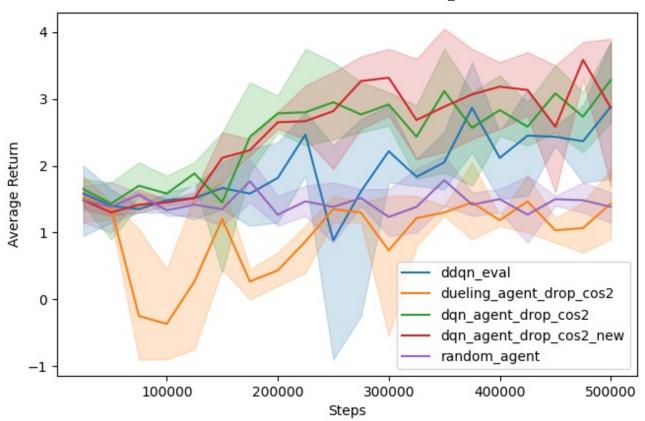
DDQN & Dueling DQN



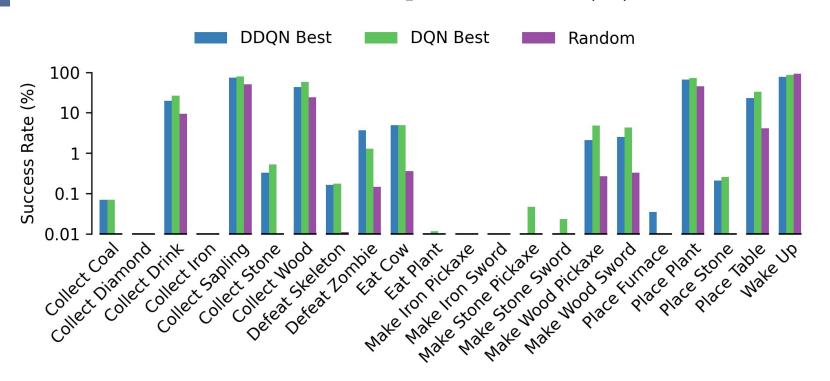
Munchausen



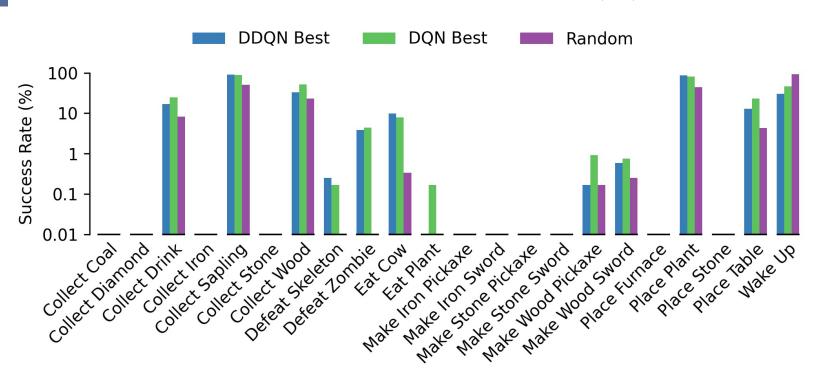
Performace Comparison



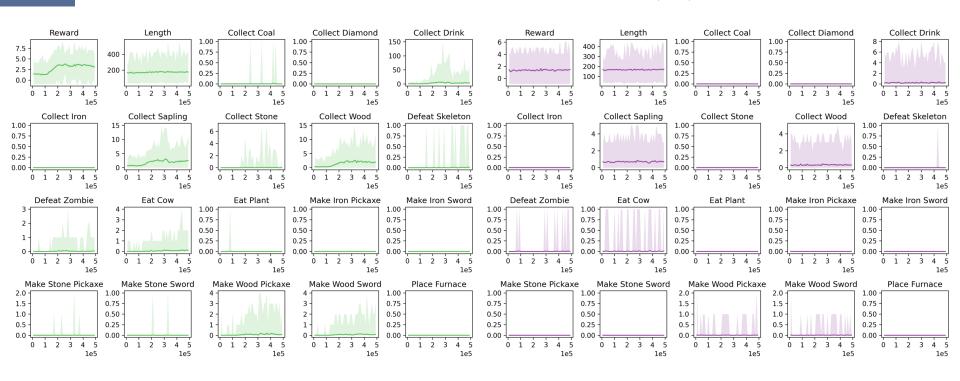
Performace Comparison (2) - Train



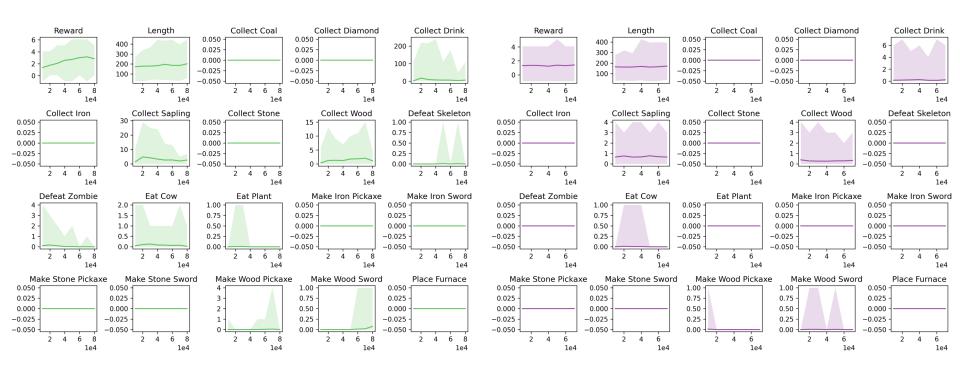
Performace Comparison (3) - Eval



Performace Comparison (4) - Train



Performace Comparison (5) - Eval



Thank You

Questions Please