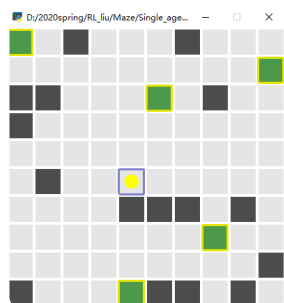


1. Maze 实验

- 1 Agent 5 Goals 找最短路径.

① environment



Start = (14, 4)

ends = (7, 2) (14, 0) (10, 9) (9, 8) (15, 7)

obstacles = 10x10 maze 20%
20% 随机生成

② DQN Model

256 Dense relu
128 Dense relu
64 Dense relu
'Adam' 'mse'

③ observation states

1	2	3
4	5	6
7	8	9

 + distance [current-position, goal]
+ Start-position
+ End-position
obstacles: 0 empty: 1

④ Activation states

"Up" "down" "Left" "Right"

⑤ reward

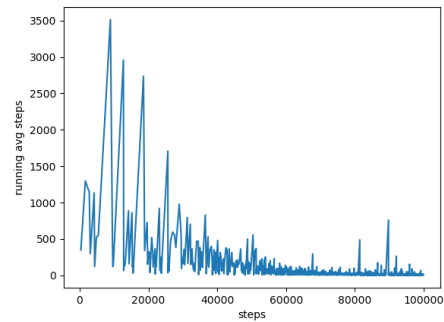
$\left\{ \begin{array}{ll} \text{obstacles} & : -10 \\ \text{moving} & : -1 \\ \text{goal} & : 50 \end{array} \right.$

⑥ training:

ϵ -greedy.

replay experiment

double DQN



2. 多场景下的 Model 训练

场景1下训练好模型参数, 在场景2下继续训练.

训练结果是什么呢?

2个不同 env

根据 obstacle 生成环境变化.

Seed num = 3 14.

一个场景训练迁移到新场景下, 提高训练过程.

A2C 框架.

