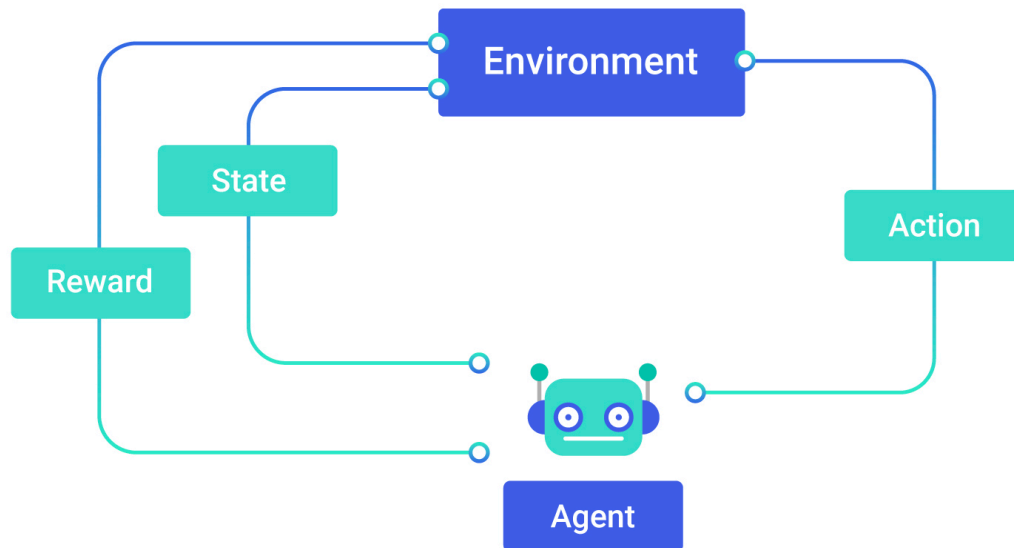# 10-403 Recitation (1/24/20): OpenAI Gym, Tensorflow

Checklist for logistics

- First assignment will be released on 01/30 (*Exciting*)
- Today's recitation is *very* important for HW1!

Questions to be answered in this recitation

- Why do we need libraries such as OpenAI Gym and Tensorflow?

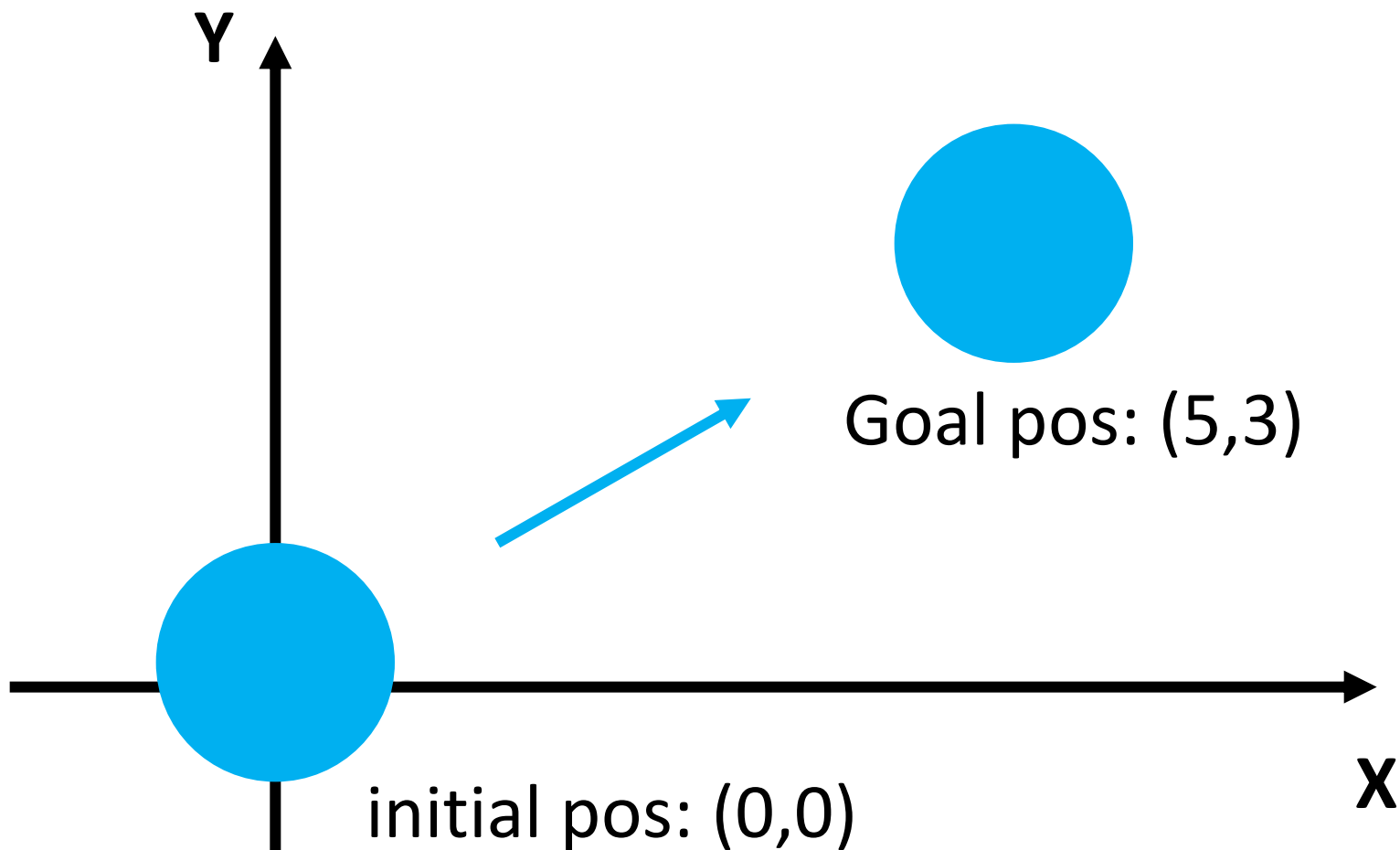- How do we use these libraries for HW1?

Disclaimer: Some of the material were borrowed from slides of Ben Eysenbach (ex TA)

Open AI Gym

- Link: https://colab.research.google.com/drive/1Vnp546PeCBs5sEM1tjnqCZjt_rcox_y3

- Test it on Google Colab by yourself: 1) Click "Open in playground", 2) Click "Copy to Drive"
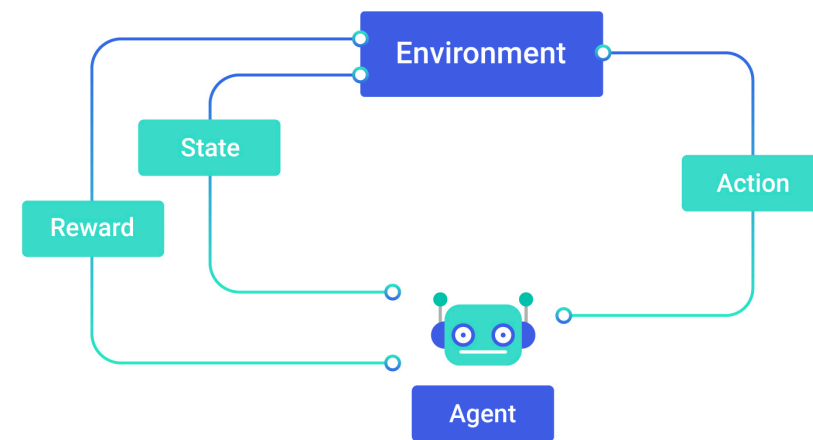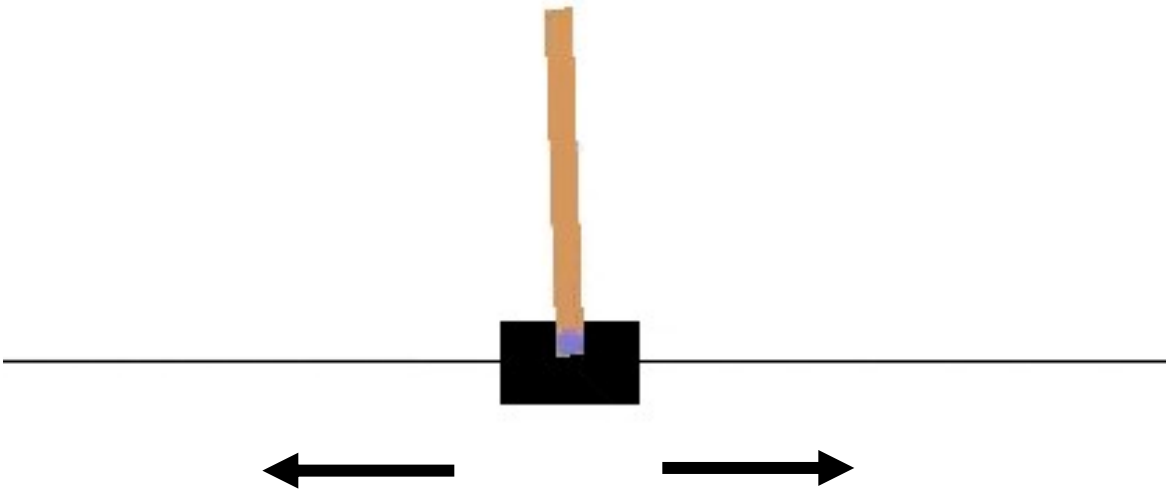
PointMass Environment

Y

Goal pos: (5,3)

initial pos: (0,0)

X

Observation?
Action?
Reward?
Done?

Environment

State

Reward

Action

Agent

CartPole Environment

Num	Observation	Min	Max
0	Cart Position	-2.4	2.4
1	Cart Velocity	-Inf	Inf
2	Pole Angle	~ -41.8°	~ 41.8°
3	Pole Velocity At Tip	-Inf	Inf

Observation?
Action?
Reward?
Done?