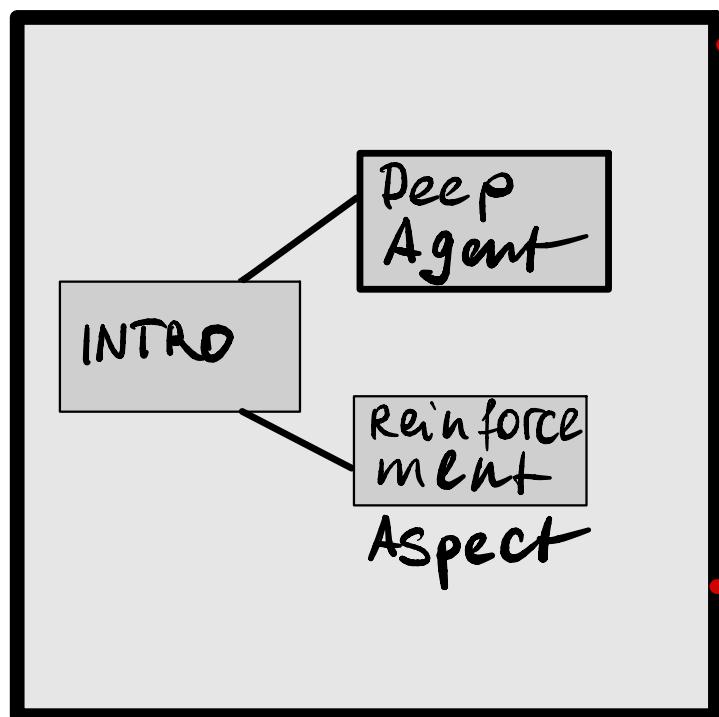


Struktur

DRL

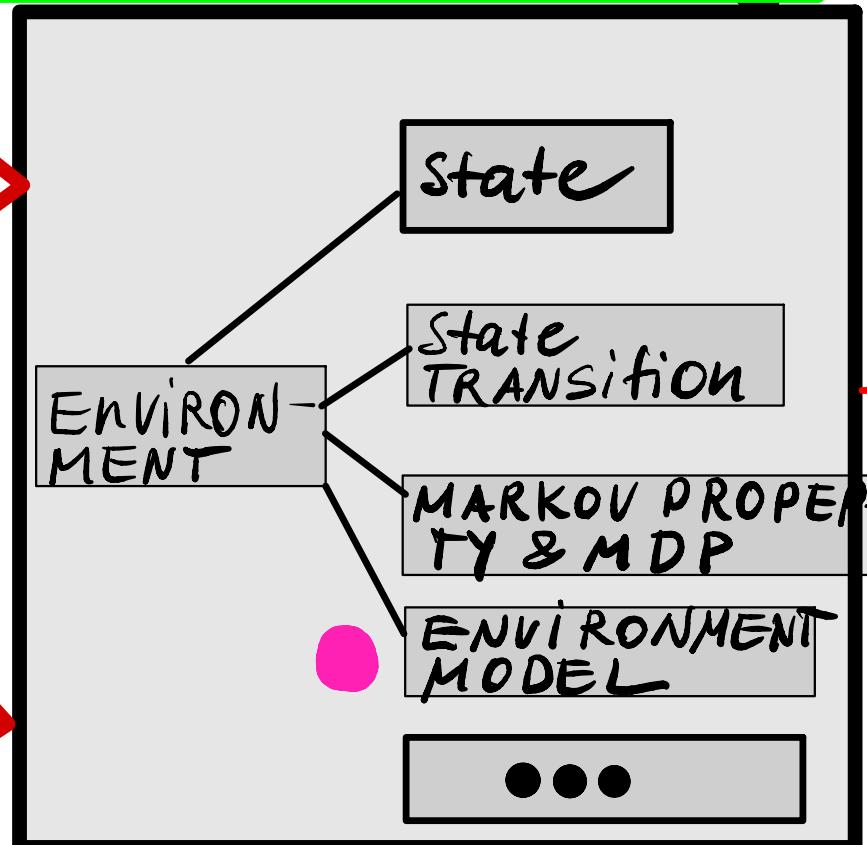


Introduction

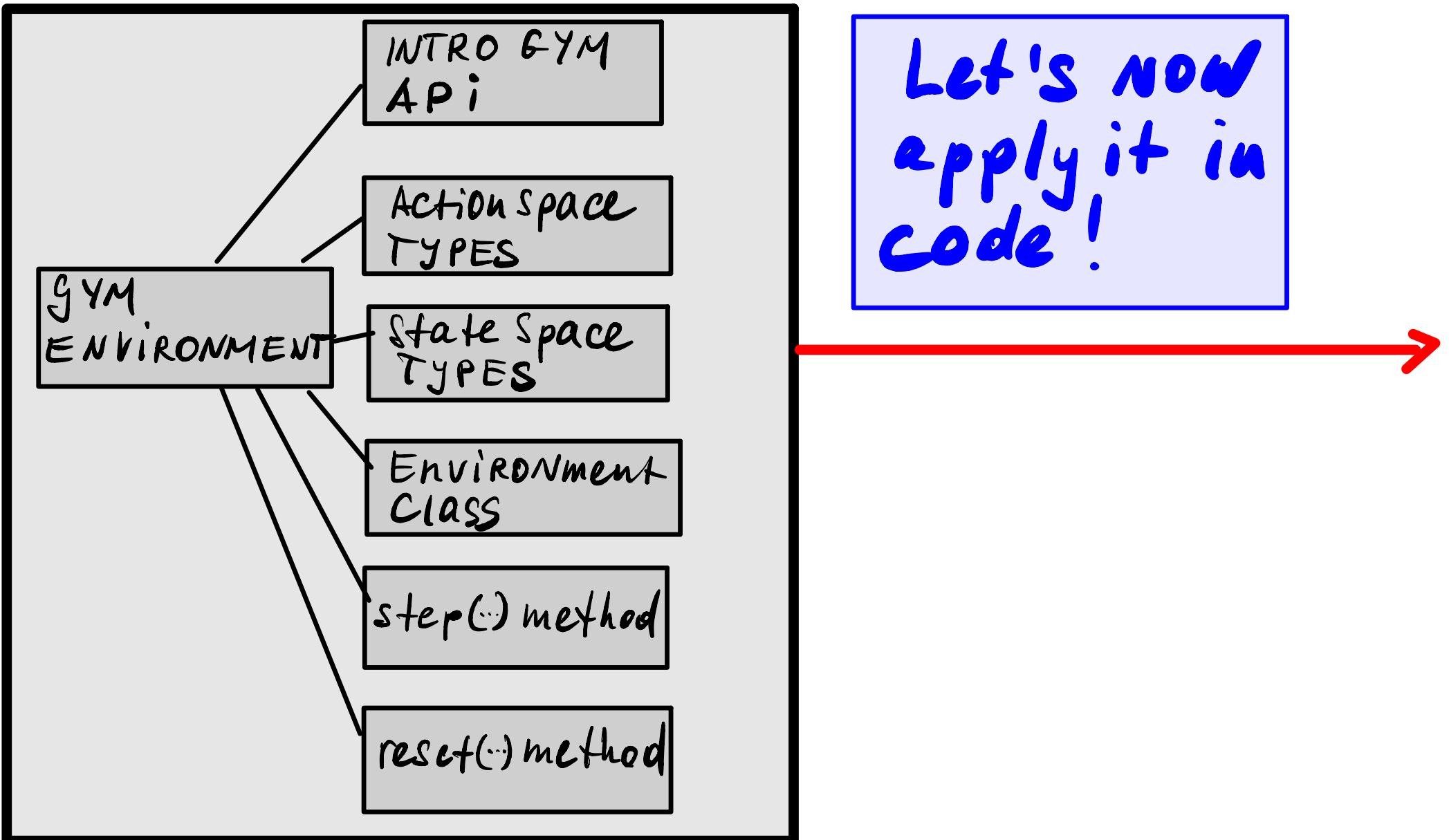


ENVIRONMENT Theory

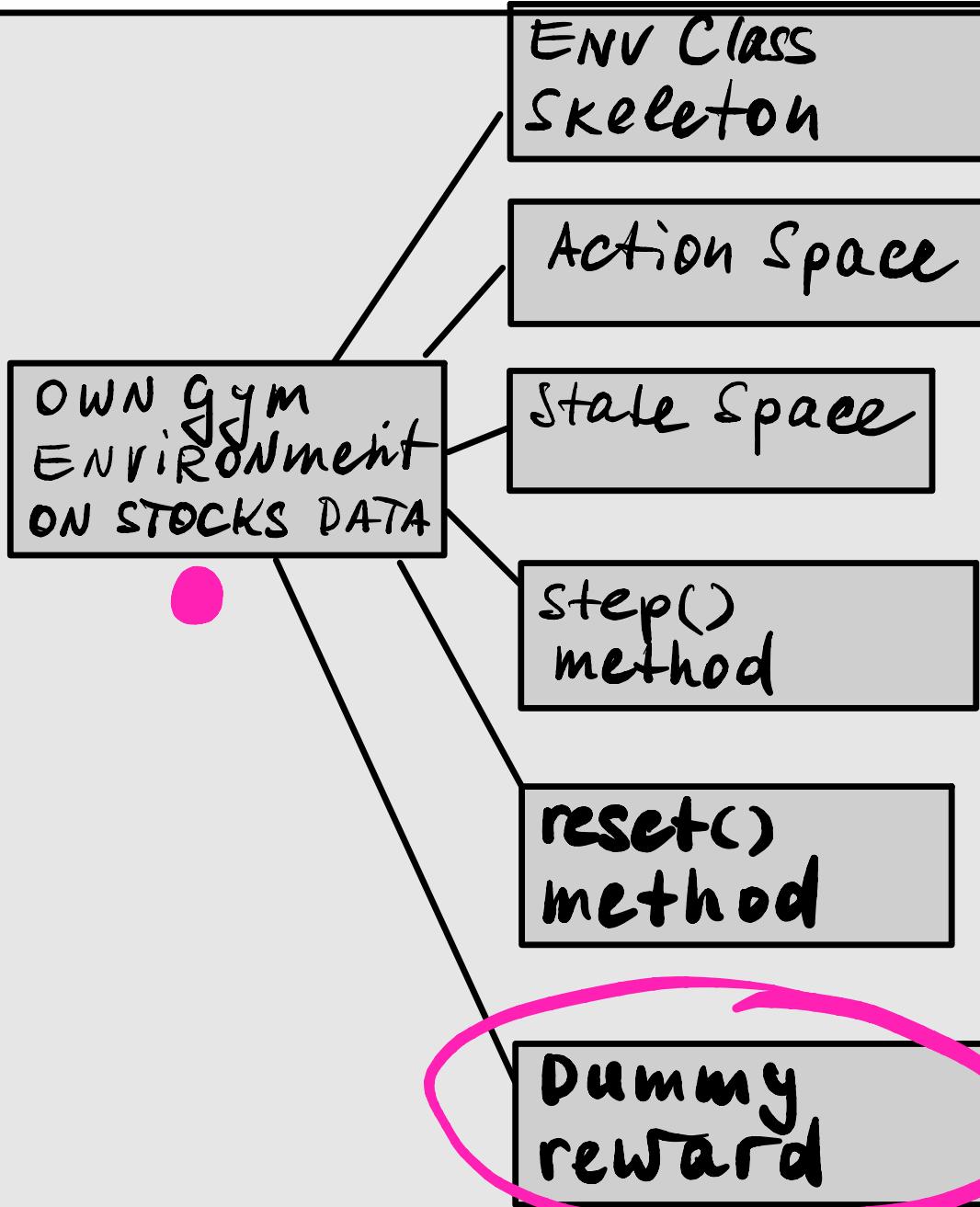
WHERE THE
AGENT
REINFORCED
TO LEARN?



Environment Practical I



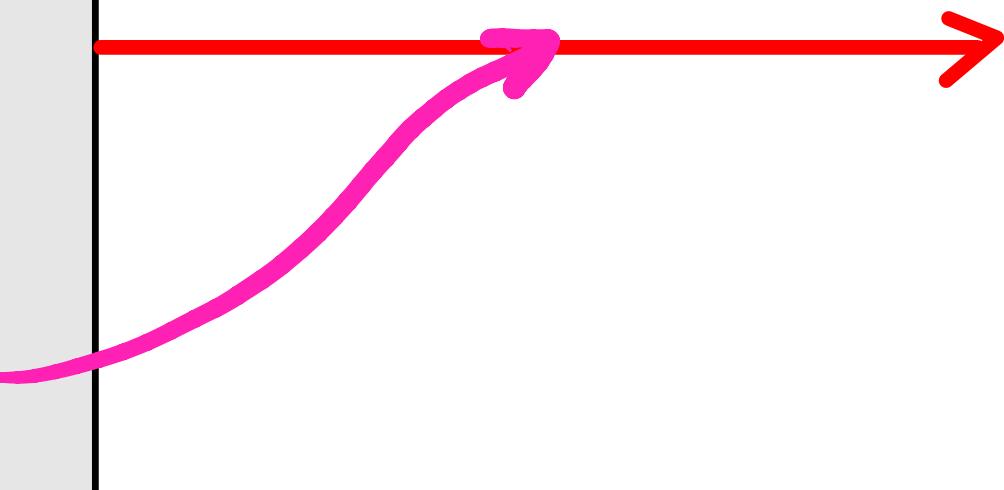
Environment Practical II



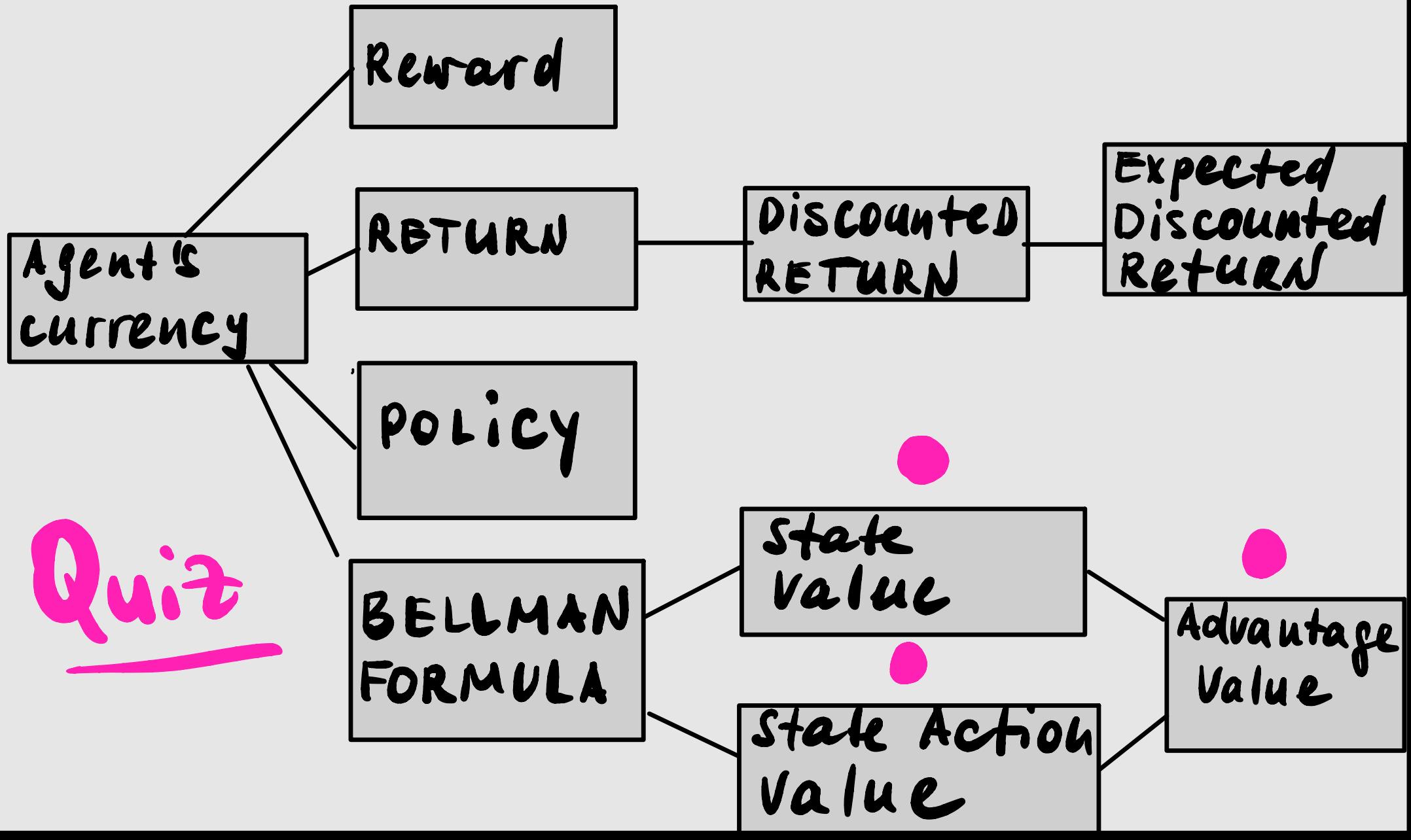
Coding Assignment
1

minimal

How the Agent Learns ?



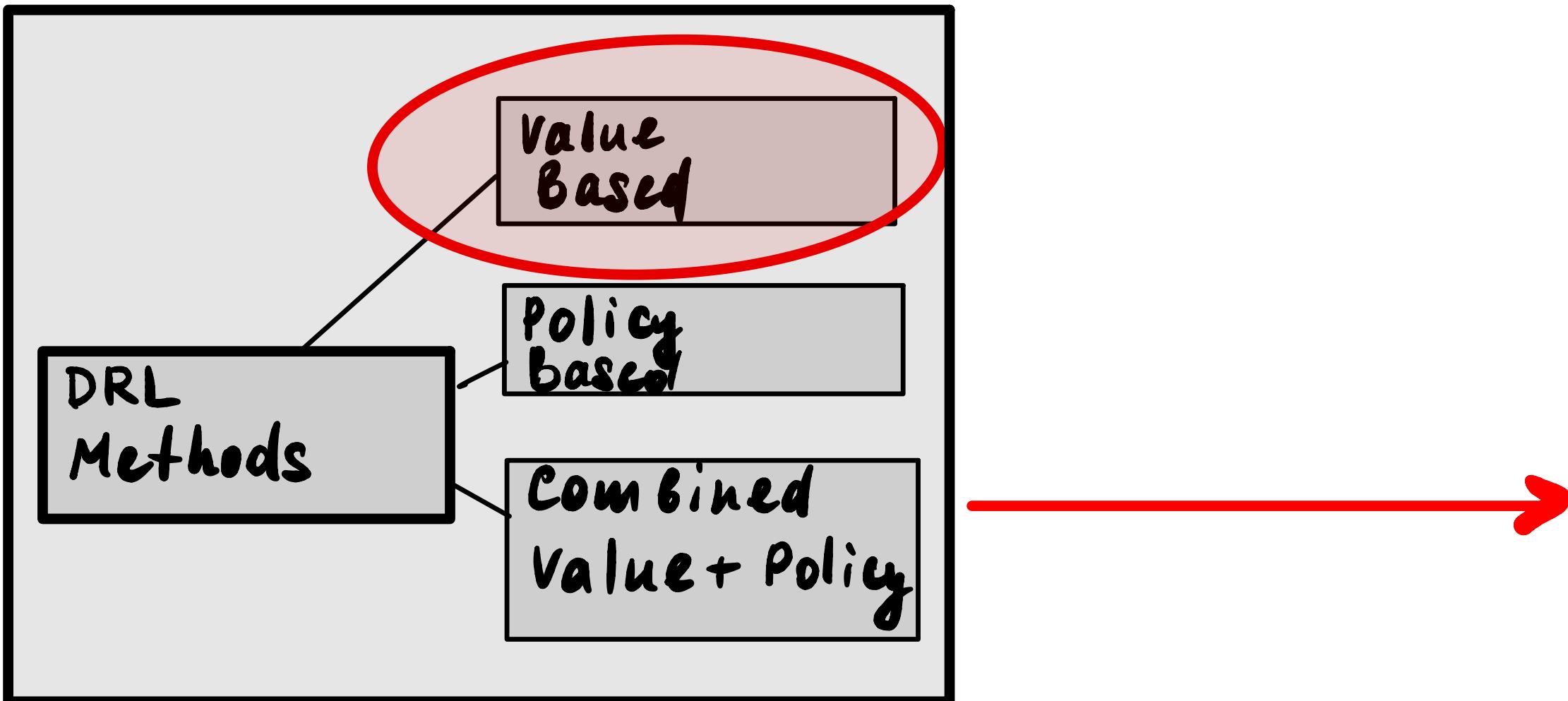
Theoretical Foundation



Given this foundation,
which approaches exist
to train the agent?



DRL Approaches



Evolution of Value Based Methods

Monte Carlo

Coding
Ass. 2

SARSA

Coding
Ass. 3

Q - Learning

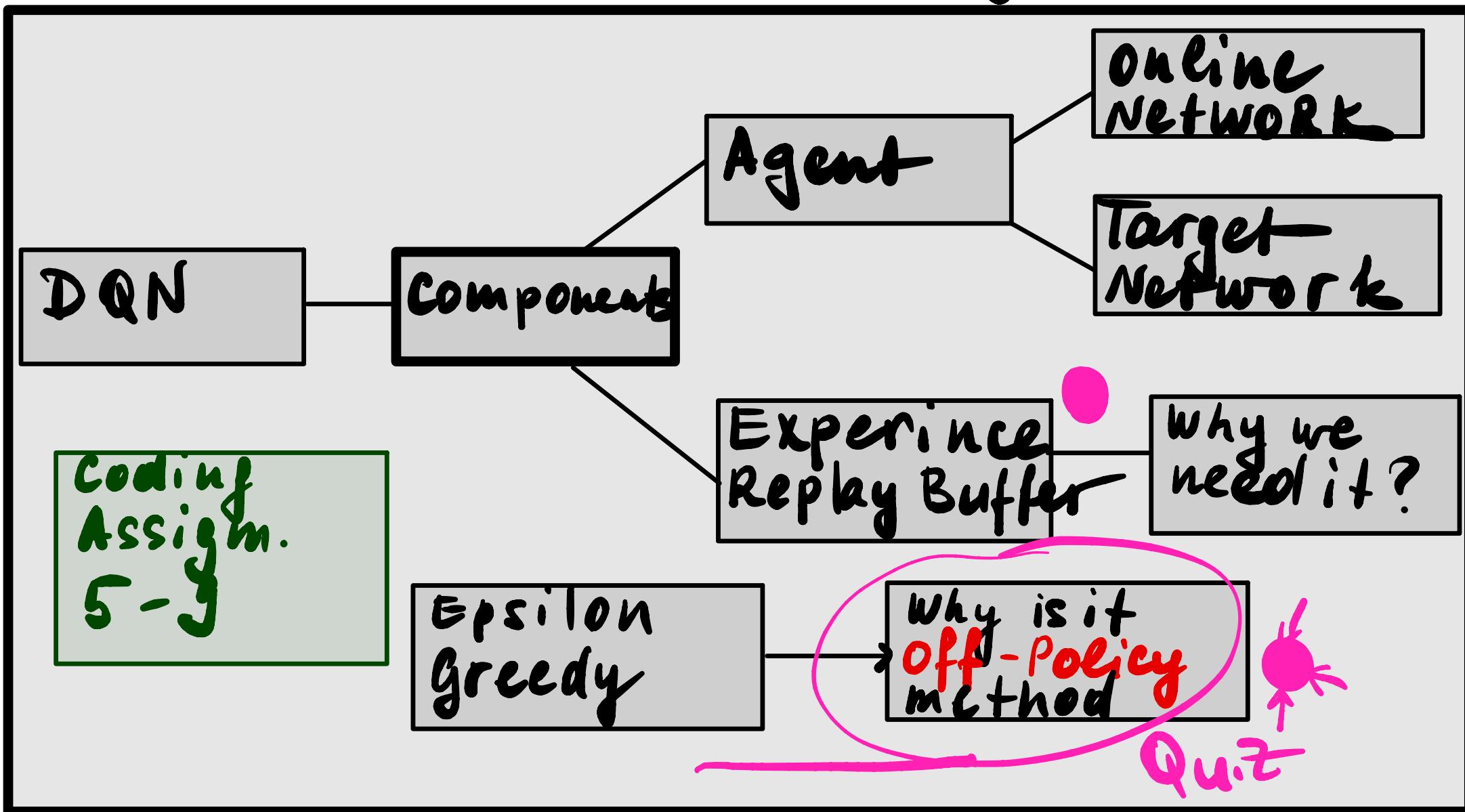
Coding
Ass. 4

Deep Q Learning

Let's dive in
Deep Q-Learning



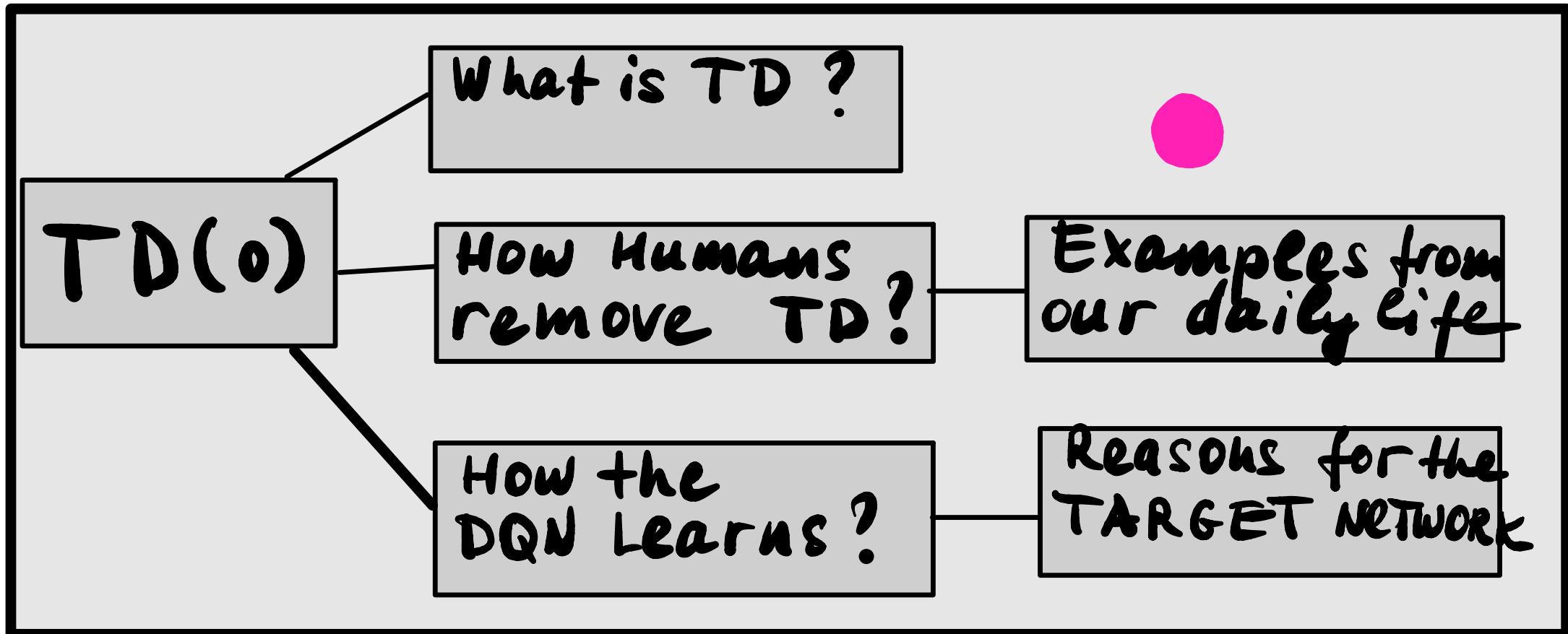
Classical DQ-Learning I



This all sounds cool,
but how the agent
actually learns?



DQN II: Temporal Difference



How can we optimize learning ?

DQN III: Hyper-Parameter Tuning

Branching DQN

Final Coding assignment – Capstone Project

