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Unit 5 Reinforcement Learning (2

<u>Course</u> > <u>weeks</u>)

9. Deep Q-network

> Project 5: Text-Based Game >

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9. Deep Q-network

As you have observed in the previous tab, a linear model is not able to correctly approximate the Q-function for our simple task.

In this section, you will approximate $Q\left(s,c\right)$ with a neural network. You will be provided with a DQN that takes the state representation (bag-of-words) and outputs the predicted Q values for the different "actions" and "objects".

Deep Q network

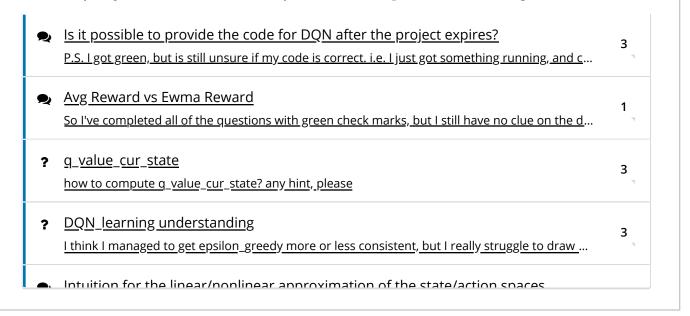
1 point possible (graded)

Complete the function $[deep_q]$ that updates the model weights, given the transition date (s, c, R(s, c), s').

Please enter the *average episodic rewards* of your Q-learning algorithm when it converges.

Generating Speech Output

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