Course: Reinforcement Learning (SS2020)
Dr. Christoph Metzner & Honghu Xue, M.Sc.
Assignment Report Nr. IV - Bonus Task
Date: 21st July 2021

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Sadly our code still contains a critical error. Non the less, we learned a lot about the design and implementation of neural networks for reinforcement learning.

Colab broke connection due to GPU usage limits after 741 episodes of training. The network showed no improvements in the reward over that time, which is why we think that our code contains an error.

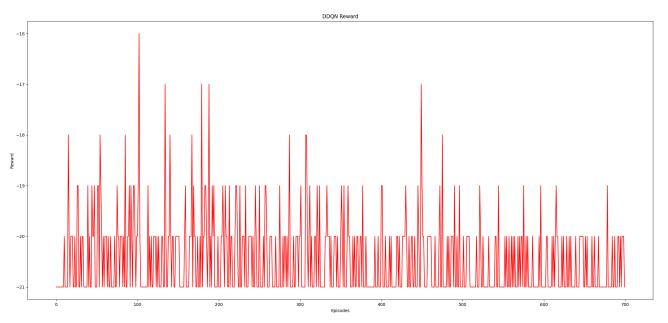


Figure 1 The DDQN episodic reward over the first 700 episodes. It is clear to see that no significant improvements have been made.

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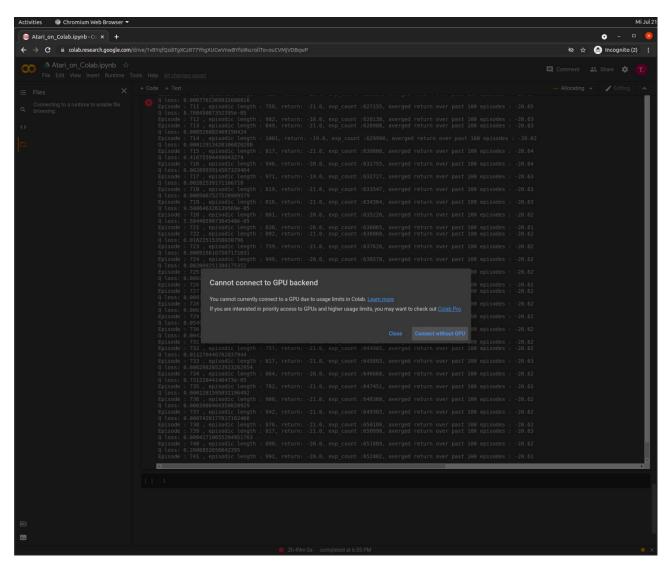


Figure 2 Colab disconnected after 741 Episodes due to GPU usage limits.