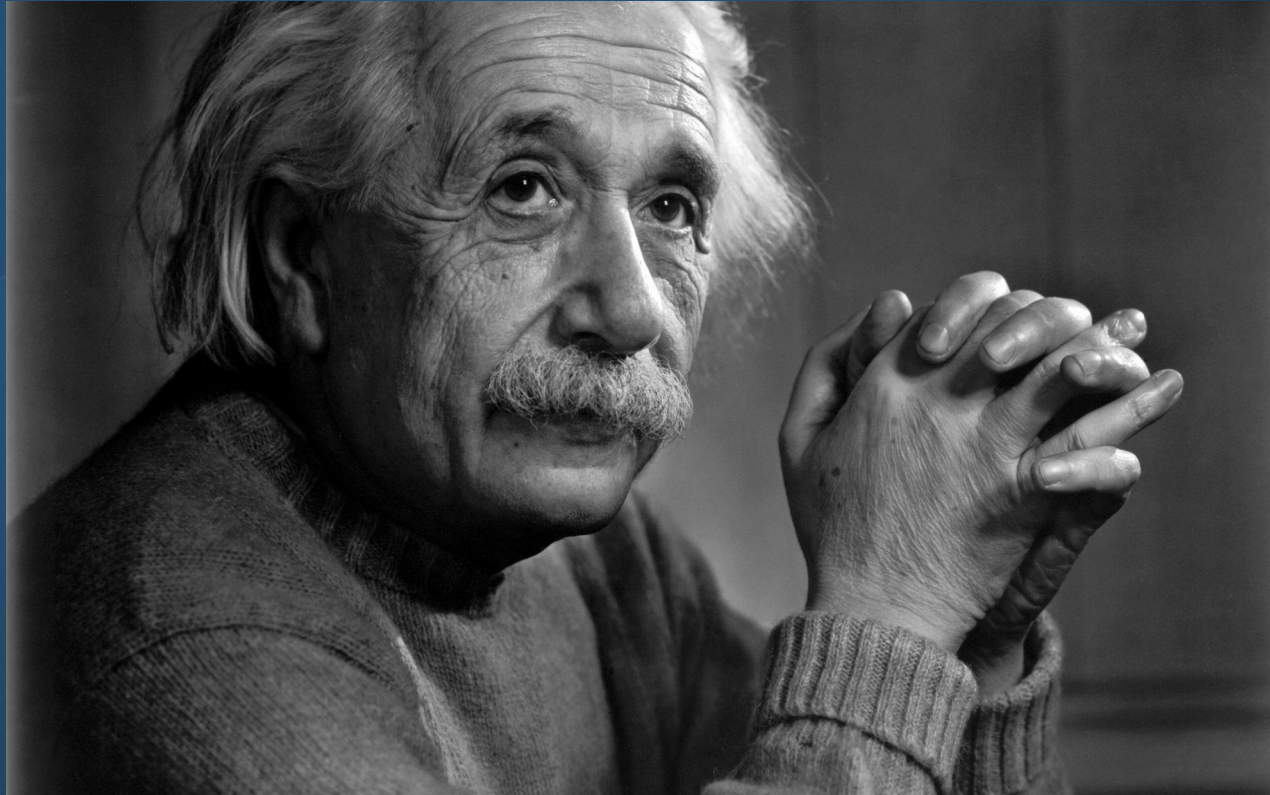


Actor Critic Methods: From Paper to Code

How to Succeed in this Course

Nothing Worth Doing is Easy



“If you can’t code it, you don’t understand it”

- Einstein (maybe)

Stuck?



Check the course forums

No progress without struggle

Find the code here (last resort):
→ www.github.com/philtabor/

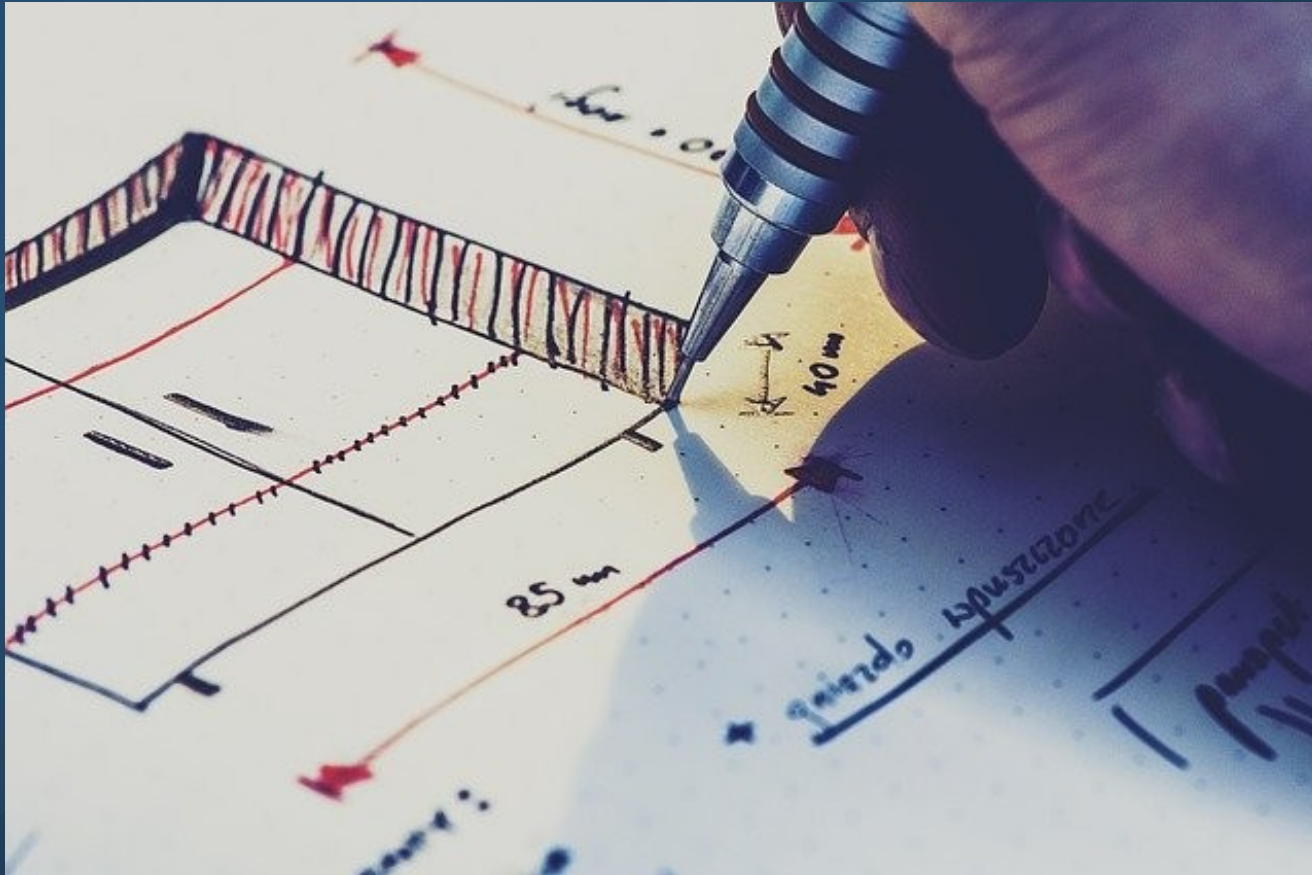


Framework Problems?



Read the docs!

Pseudocode



Sketch out solution in plain English

Pseudocode: Q Learning

Initialize arbitrary Q, terminal state gets 0

Repeat for large number of episodes:

Initialize the environment

For each step of the episode:

Select action a according to epsilon greedy policy

Take action and get reward and new state from env.

$$Q(S_t, A_t) = Q(S_t, A_t) + \alpha [R_{t+1} + \gamma \max_a Q(S_{t+1}, a) - Q(S_t, A_t)]$$

Set current state to new state

How to Code in Style

- Function names: verb_noun format
- Variable names: descriptive and obvious
- Comments should be contextual
- Can also add documentation to functions and classes

Conclusions

- Time spent is an investment
- Ask specific questions on the forum
- Leverage the PyTorch documentation
- Use coding best practices

$$\Delta x \cdot \Delta p \sim h$$

