

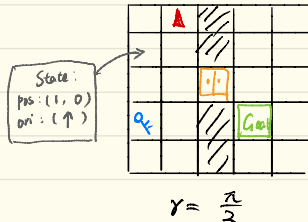
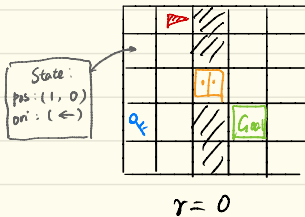
1. GIF

2. Optimal Policies & Values

① Plot the policies & values for all states that have been explored.

- For shortest path solutions:
 - Policy: for states included by the shortest path.
 - Value: for all explored states
- For dynamic programming solutions
 - Policy or Value: for all states

② We suggest using $N \times N$ grid maps. You'll need to "flatten" the higher dimensions, such that each cell represents a unique state. For example, if you have a state space: $(x, y, r) \in \mathbb{R}^3$, where (x, y) is position and $r \in \{0, \frac{\pi}{2}, \pi, \frac{3\pi}{2}\}$ is the orientation, you'll need to plot 4 grid maps wrt. different "r".



$r=\pi, \frac{3\pi}{2}$

* Example actions representations: (not necessarily)

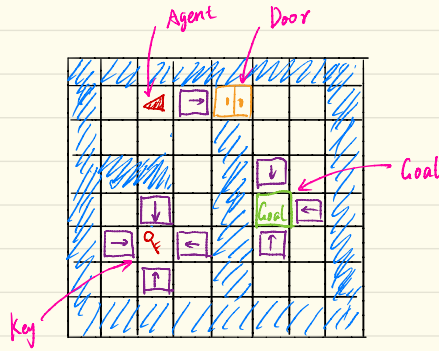
- Forward :
- Turn Left/Right : /
- Pickup Key :
- Unlock Door :

3. Optimal Action Sequence

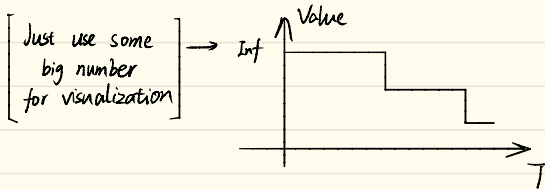
[MF → TR → MD → TL → UD → TL → ...]

4. Value Curve for some special states:

□: Special states.



For those □ states, plot the value vs. T



★ You must include the following states in your report.

① States that can pick up the key:

② The state that can unlock the door:

③ States that can reach the goal in 1 step:

There will be around 9 curves for each scene.