



AN HAAI

UNIVER

Reward

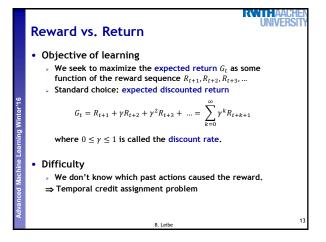
> At each time step t, the agent receives a reward R_{t+1}

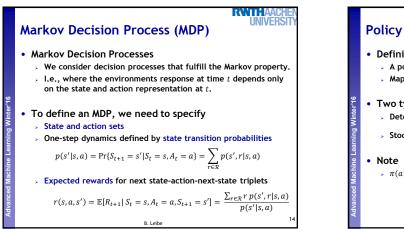
Important note

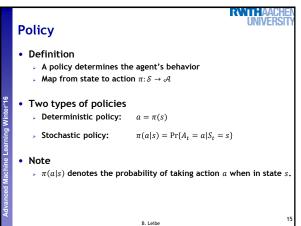
> We need to provide those rewards to truly indicate what we want the agent to accomplish.

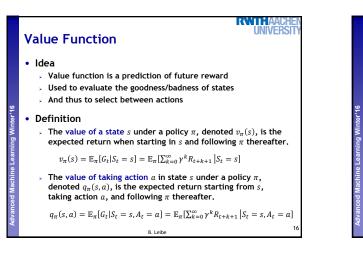
- E.g., learning to play chess:
 - The agent should only be rewarded for winning the game.
 - Not for taking the opponent's pieces or other subgoals.
 - Else, the agent might learn a way to achieve the subgoals without achieving the real goal.
- ⇒ This means, non-zero rewards will typically be very rare!

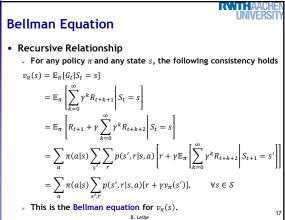
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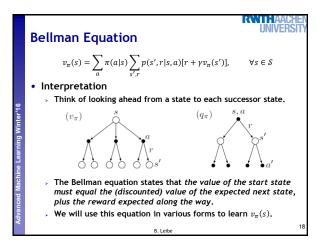


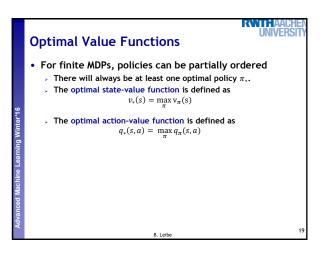


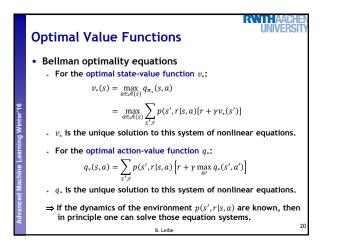


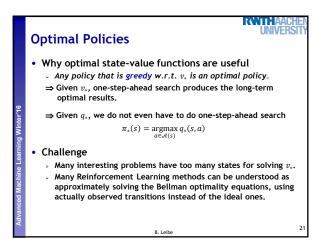


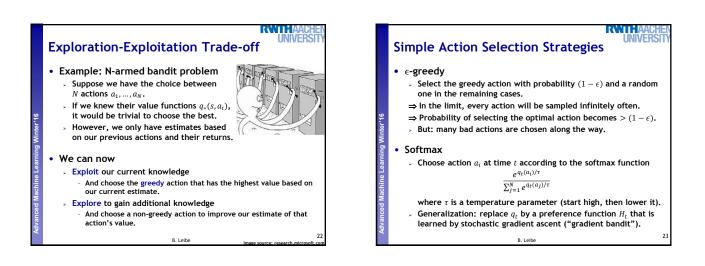


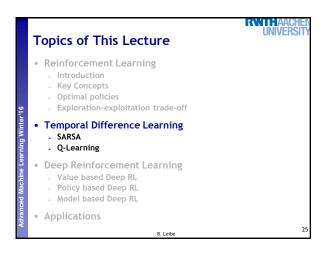


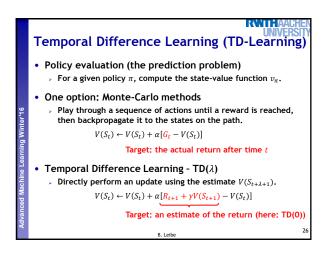


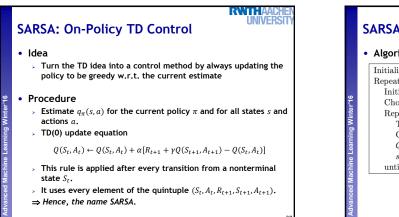




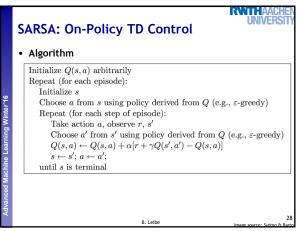


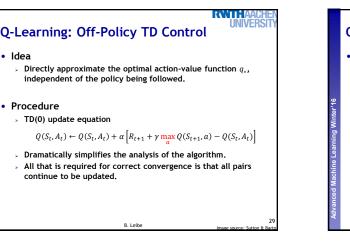




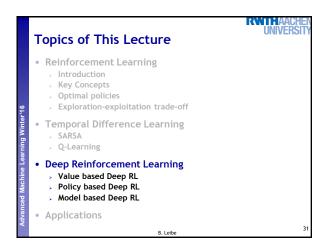


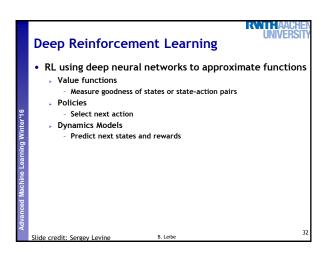
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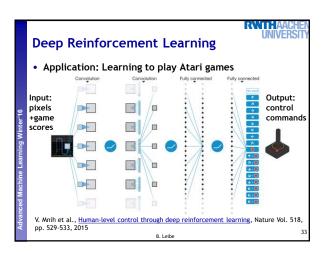


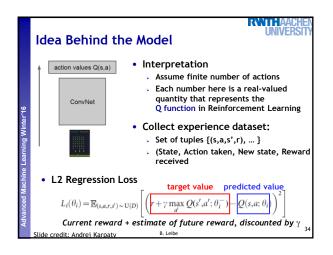


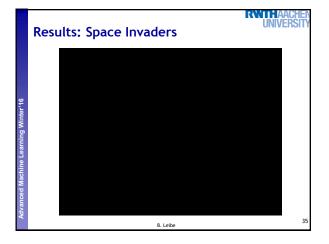
Proportion Operation Operation Operation Display Display

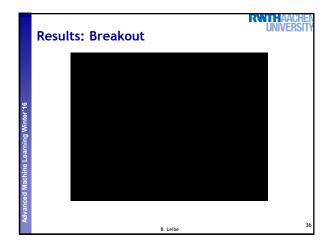


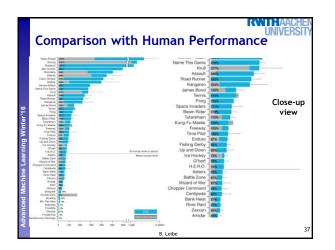


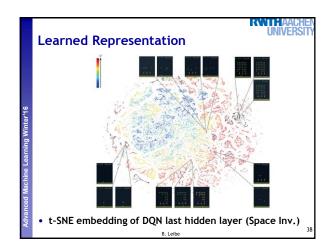


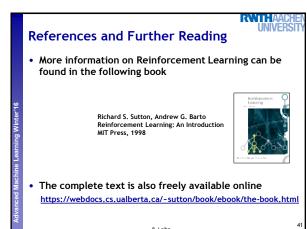












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