

Reinforcement Learning in a nutshell 1. Basic RL Framework 1.1. Block Digram 2. Math Framework 2.1. Markov Decision Process 2.1.1. Details 2.1.1.1. Navigating the MDP Graph produce traces of the form 2.1.1.2. MDP Dynamic 2.1.1.2.1. Probabilistic Representation is more general as it includes the deterministic one as a special case where distributions are Dirac Delta 2.1.1.3. Policy 2.1.1.3.1. Probabilistic Representation is more general as it includes the deterministic one as a special case where distributions are Dirac Delta 2.1.1.4. Discounted Reward 2.1.1.4.1. Navigating the MDP with a Policy 2.1.1.4.2. Collecting Rewards 2.1.1.4.3. Projecting the Amount of Rewards the Policy is able to collect into the present 3. Hypothesis 3.1. Reward Hypothesis 3.1.1. Questions

3.1.1.1. How efficient is to compress all of the useful info for the agent into a single scalar

3.1.2. Important implications

3.1.2.1. Reward Design