

Reinforcement Learning formula

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Discounted return at time step t :

$$G_t = \sum_{k=0} \gamma^k R_{t+k+1}, \quad \gamma \in [0, 1] \quad (1)$$

One-step dynamics:

$$p(s', r|s, a) = \mathbb{P}(S_{t+1} = s', R_{t+1} = r|S_t = s, A_t = a) \quad (2)$$