

Reinforcement Learning: Lecture 1 Notes

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- Types of RL agents
 - **Model-based** agents have an explicit model and may or may not have policy and/or value functions. The model in these agents is a model of the environment that the agent is in and it estimates things like state transition probabilities and state rewards.
 - **Model-free** agents have an explicit value and/or policy function and no model. These agents don't use a model of the environment to make their decisions and instead do things like estimate the value of certain actions and search of the space of policies. An example of a model-free agent is one that uses Q-learning to estimate action values and then policies.
- Time horizon differences (finite, infinite, and indefinite)
- Stationary vs. non stationary
- On policy vs off policy