MODELING CHOICES

Lecture 1.3
CSE4/510: Reinforcement Learning
May 28, 2019
Modeling Choices

Environment: Observable vs. Partially Observable

Agents: Single vs. Multi-agent

Next States: Outcomes are Certain vs. Random

Problem: Episodic vs. Sequential

Environment: Continuous vs. Discrete
Environments

1. FULLY OBSERVABLE

2. PARTIALLY OBSERVABLE
Environments

FULLY OBSERVABLE

PARTIALLY OBSERVABLE
Agents

1. SINGLE AGENT

2. MULTIAGENT
Agents

SINGLE AGENT

MULTIAGENT
Next States

1. DETERMINISTIC

2. STOCHASTIC
Next States

DETERMINISTIC

STOCHASTIC
1. SEQUENTIAL

2. EPISODIC
Problem

EPISODIC

SEQUENTIAL
Environment

1. DISCRETE

2. CONTINUOUS
Environment

DISCRETE

CONTINUOUS
Do you like challenges?

How about driving a rented car in a new country with unfamiliar geography and traffic laws? 😊