

Properties of Environment

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Accessible (vs Inaccessible)

- Accessible
 - Agent has or can obtain complete, accurate, and up-to-date information about the state of the environment
 - A more accessible the environment, simpler to build agents to act in that environment
- Inaccessible
 - Internet
 - Physical world

Deterministic (vs Non-Deterministic)

- Deterministic
 - Environment in which each action has a single guaranteed effect
 - No uncertainty about the resulting state
- Physical world is non-deterministic

Episodic (vs Non-Episodic)

- Episodic
 - Performance of an agent is dependent on number of discrete episodes
 - No link between the performance of an agent in different scenarios

- Static
 - Environment can be assumed to remain unchanged except by the performance of actions by the agent
 - Predictable
- Dynamic
 - Other processes or agents also operate in the environment
 - Physical world is dynamic

- Physical world is an example of deterministic environment.
True or false? [1 mark]
- Describe any three properties of environment in which agents operate. Give one example for each. [3 marks]