**- Rationality**

What is rational at any given time depends on four things:

The performance measure that defines the criterion of success.

The agent’s prior knowledge of the environment.

The actions that the agent can perform.

The agent’s percept sequence to date.

1. Task environment: The nature of the task

environment directly affects the appropriate design for the agent program.

2. Four basic kinds of agent programs that embody

the principles underlying almost all intelligent systems:

* + Simple reflex agents;
  + Model-based reflex agents;
  + Goal-based agents; and
  + Utility-based agents.

3. Model-based agent

The transition model and sensor model allow an agent to keep track of the state of

the world—to the extent possible given the limitations of the agent’s sensors. An agent that

uses such models is called a model-based agent.  
A close-up of a document

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4. Simple reflex agents  
A diagram of a diagram

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5. Goal-based agents  
A diagram of a business

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Depends on Goad   
Searching and Planning takes place

6. Utility-based agents

A diagram of a system

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7. Learning agent   
  
A diagram of a performance management system

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