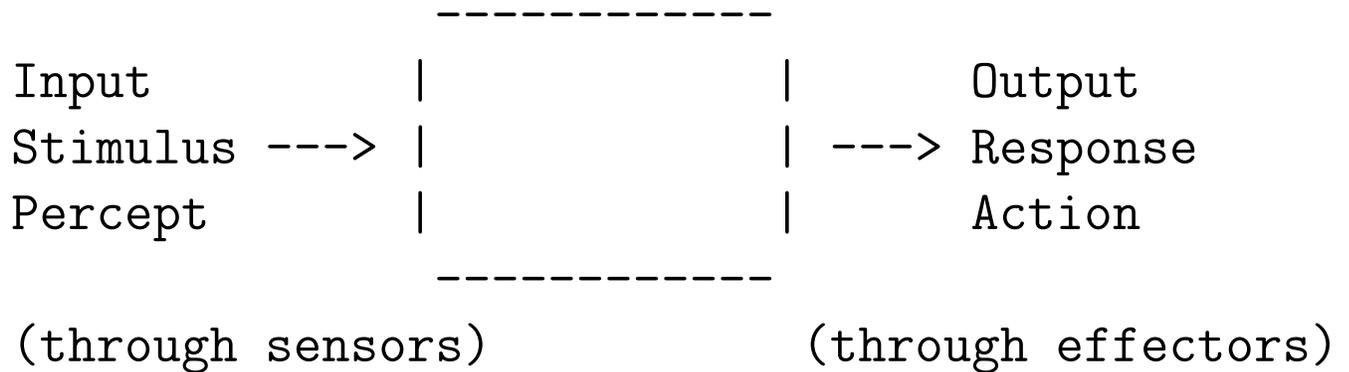


AGENTS – Black Box

E N V I R O N M E N T



- Goal
- Performance measure: Criteria to determine how successful an agent is.

An agent may be:

Rational: does the right thing.

Omniscient: does the perfect thing.

Ideal: does the optimal thing given its state of knowledge.

Autonomous: Initial kn. + ability to learn.

Agents

- **Type of Agents:**

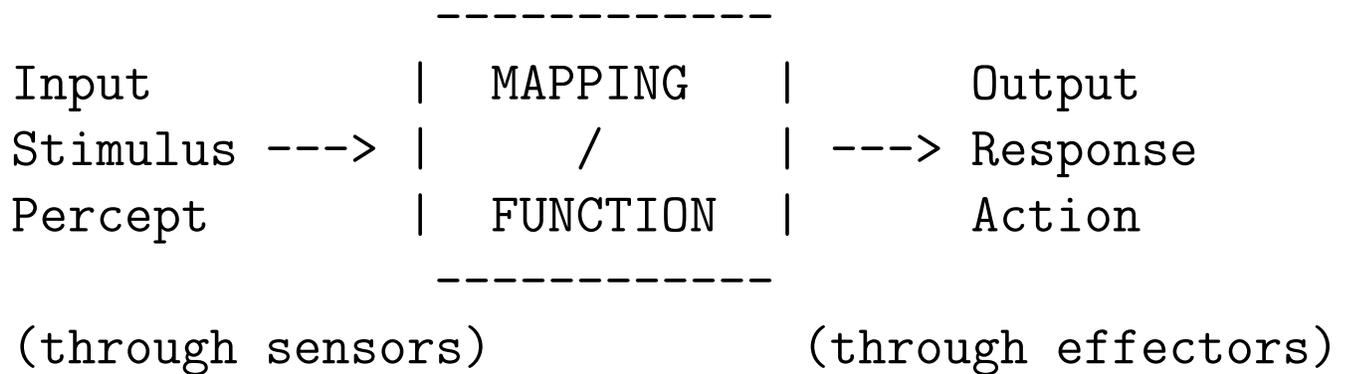
- Simple reflex agents
 - Model-based reflex agents (keep track of the world)
 - Goal-based agents
 - Utility-based agents
 - Learning agents
-

- **Agents are expected to:**

- **Achieve goals:** search and planning
- **Sense environment:** machine vision, NLP
- **Be autonomous:** machine learning
- **Store knowledge:** knowledge representation

AGENTS – Inside the Black Box

E N V I R O N M E N T



- This mapping/function is implemented using a **program** that runs on an architecture.