

## Simple Reflex Agents

How they work:

1. They make decisions only based on the current input.
2. They don't remember anything and don't plan ahead.

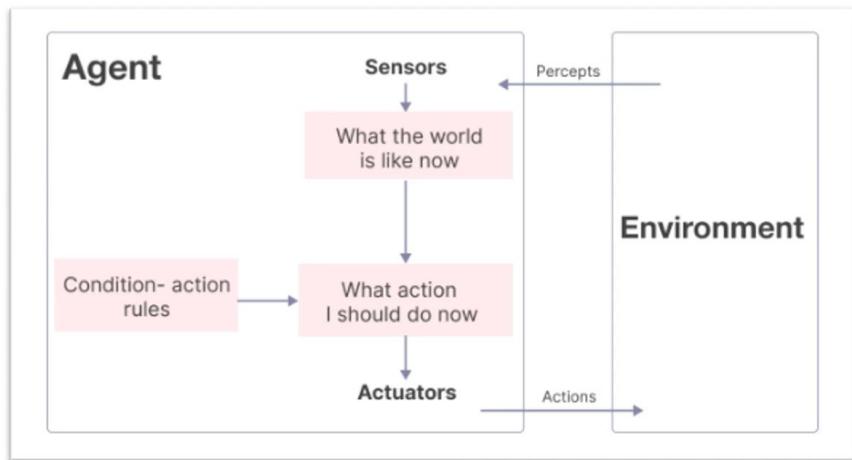
Example:



1. A thermostat that turns off the AC when the room is cold.
2. Rule: "If temperature < 25°C → Turn off"



02



## Model-Based Reflex Agents

How they work:

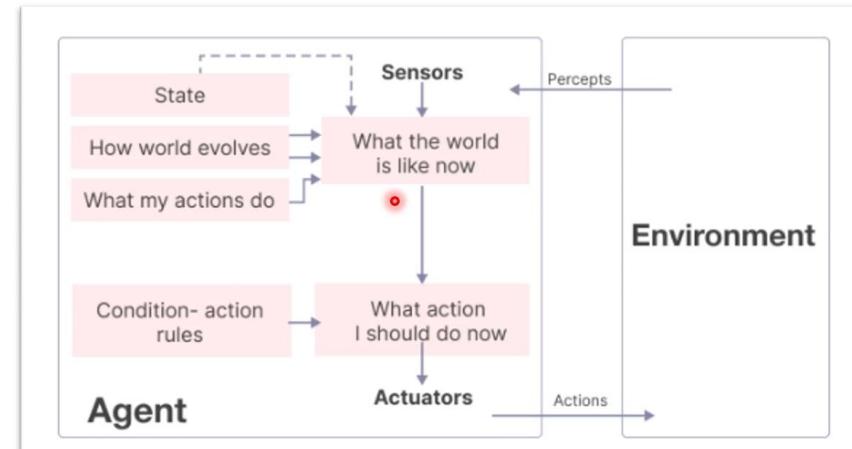
1. They remember some past data and understand how the world works..
2. They use that knowledge to make better decisions.

Example:

1. A chatbot that remembers you said "I want a cab" before and now asks "Where should I pick you up?"



03



# Utility-Based Agents

## How they work:

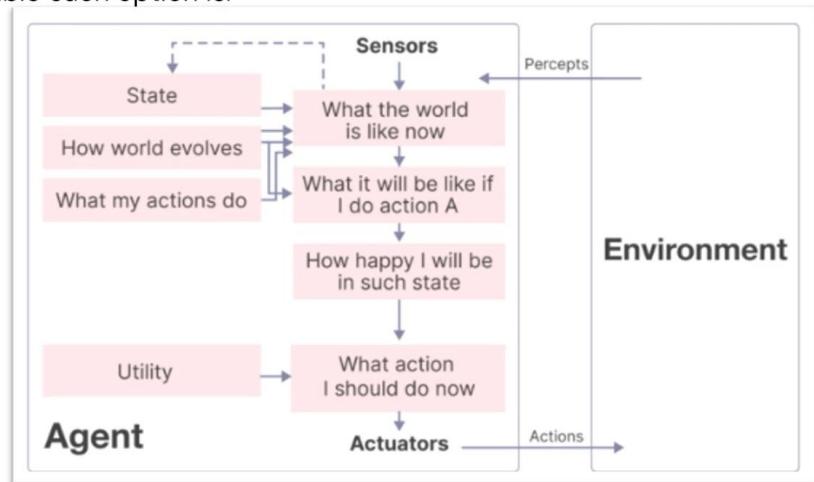
1. They don't just want to reach a goal — they want to do it in the best possible way.
2. They calculate how useful or valuable each option is.

### Example:

1. An AI that books a flight not just to reach Delhi, but also based on cost, comfort, and timing



05



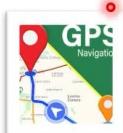
# Goal-Based Agents

## How they work:

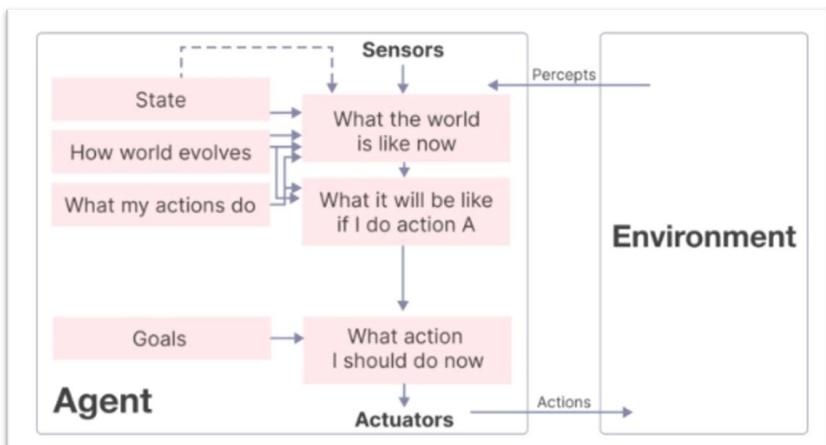
1. They try to reach a specific goal..
2. They don't just react — they plan the best way to achieve something.

### Example:

1. A navigation system that finds the best route to your destination
2. Goal: "Reach location in least time"



04



# Learning Agents

## How they work:

1. They improve over time by learning from their past mistakes and successes.
2. They have a learning module that updates behavior automatically

### Example:

1. A recommendation system like YouTube or Netflix
2. Learns what you like and shows better suggestions



06

