

# Agent-Based Modelling

## The micro-level approach to simulation

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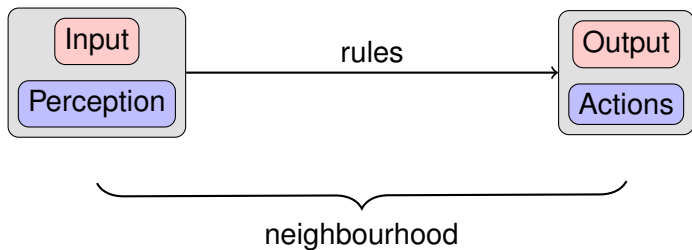
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# Agent-Based Modelling

- Micro-level approach
- Focus on individuals in the model
  - autonomous agents
- Straight-forward, object-oriented implementation
  - define the agents as objects
  - instantiate
  - run (simulation)
  - see what happens

# The Agent

# Process



# Types of agents

- Deterministic or probabilistic
- Learning or non-learning
- Stationary or mobile
- Exact or approximate perception

# Summary

- Each agent is a model in its own right.
- Take time to discuss the nature of each agent.
  - 1 Capabilities
  - 2 Instincts
  - 3 Interests and Objectives
- Modular model
  - straight-forward to implement and simulate