

Price Determination with Evolutionary Strategies

Berk Can Özmen | Agent-Based Modelling

Setup



- Initialize environment
- Initialize agents with random genome

Go

- Produce goods
- Exchange goods
- Consume goods
- Evaluate fitness
- Move
- Reproduce Mutate

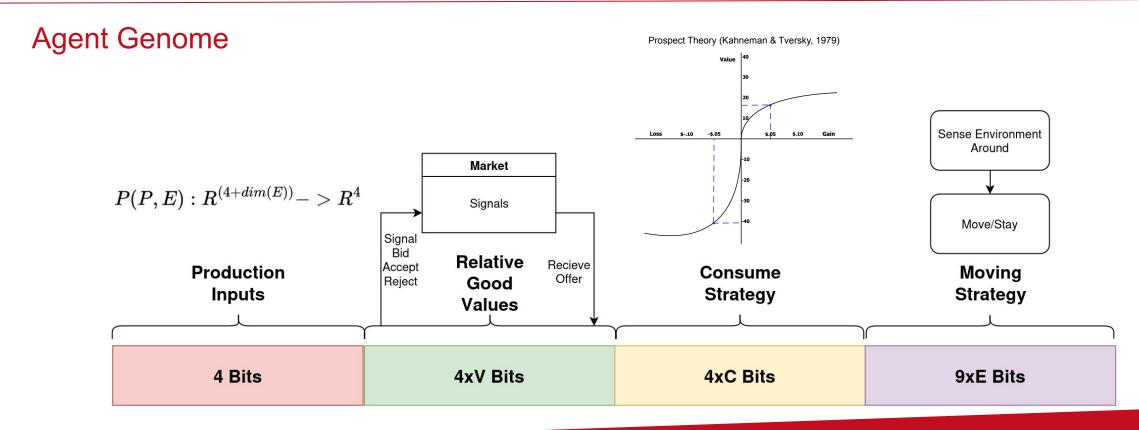
Goods and Needs

- 4 type of goods
- 2 type of needs

Environmental Variables (E)



- Temperature/Season
- Location
- Agent Density



Questions:



- 1. Optimization of strategies? Creativity?
- 2. Environmental effects on agents (scarcity/abundance)
- 3. Cooperation competition for market and location
 - a. Local-global cartelization?
 - b. Local-global cooperation?