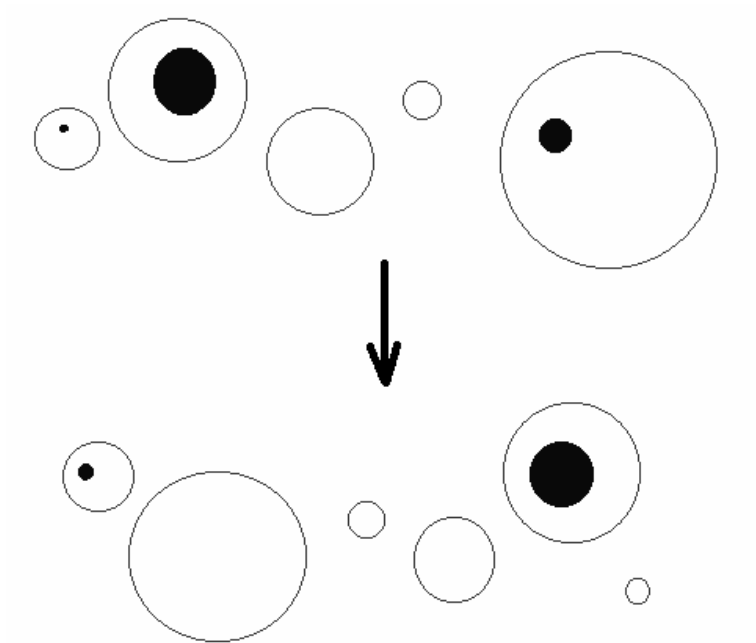


# Micro Hypothesis

- Individuals act “randomly”  
according to **probabilistic** *micro-laws*
- stable steady state *macro* (collective)  
behavior **emerges**.

# Micro-law Postulates



*individual* determines:

- Number of flakes
- Which flakes to stay in
- Which flakes to join

*parameters* govern how

# Number of Flakes

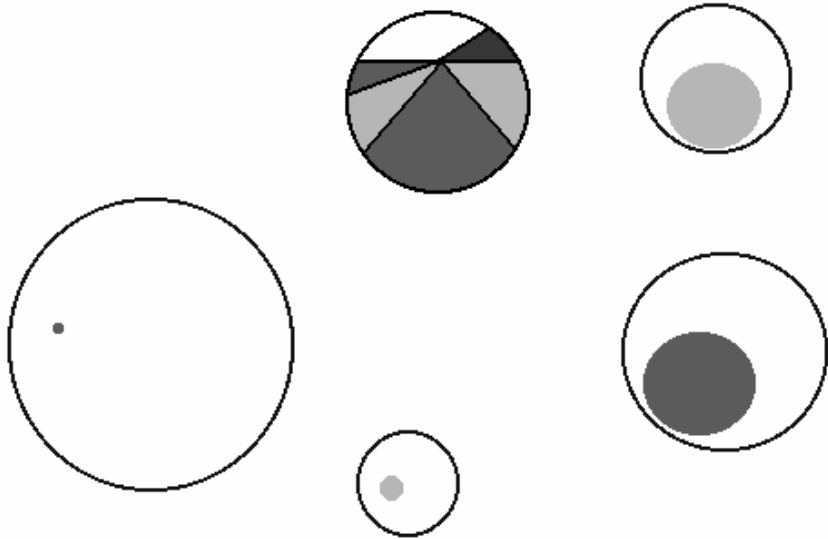
Node has an *energy*

Energy used in each flake

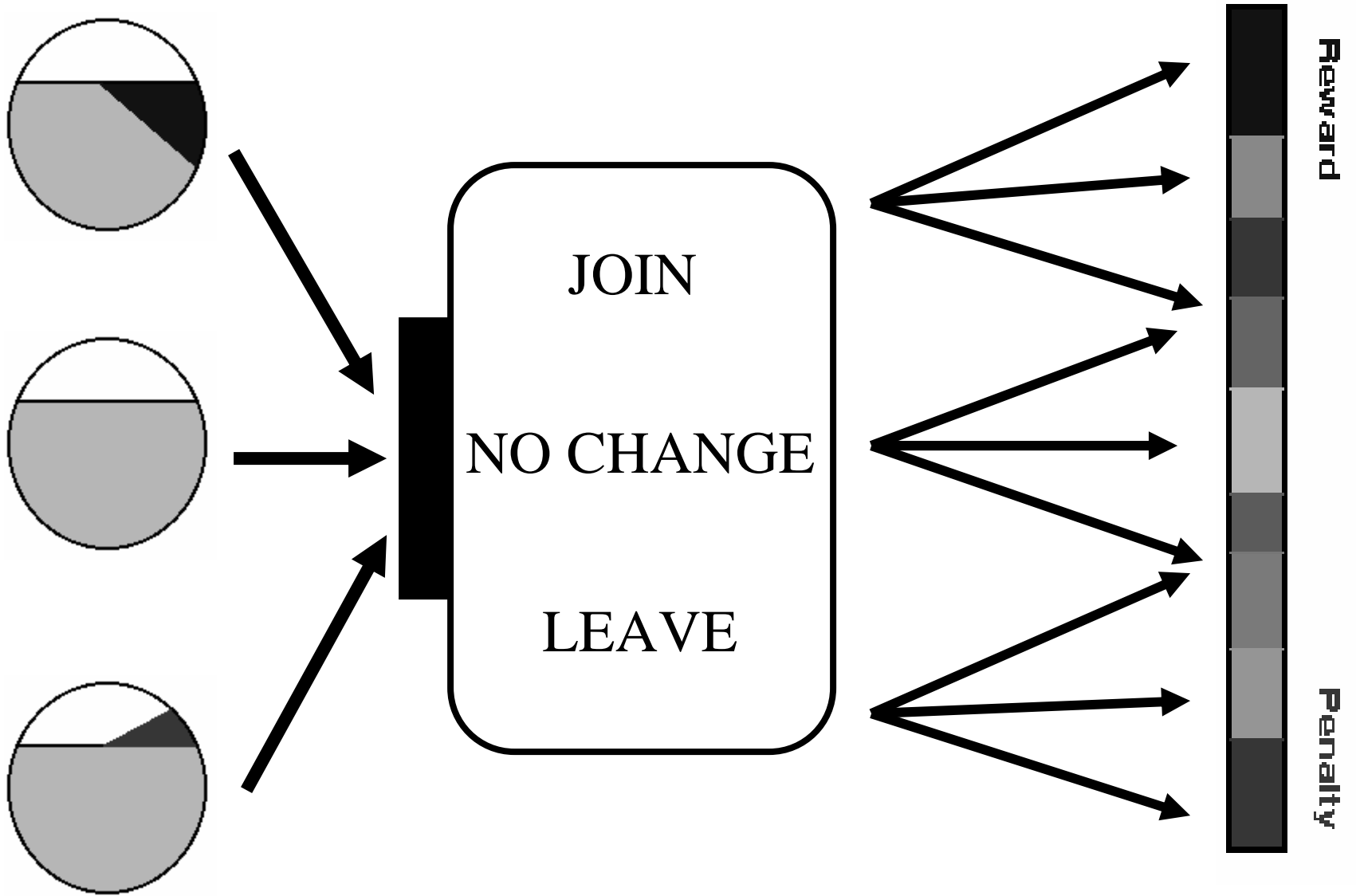
Energy can be surplus  
- join new flake

Energy can be deficit  
- leave a flake

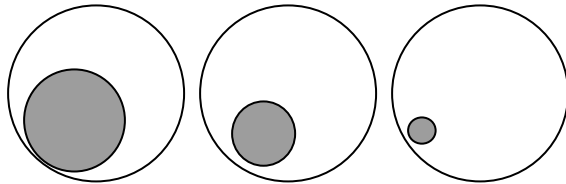
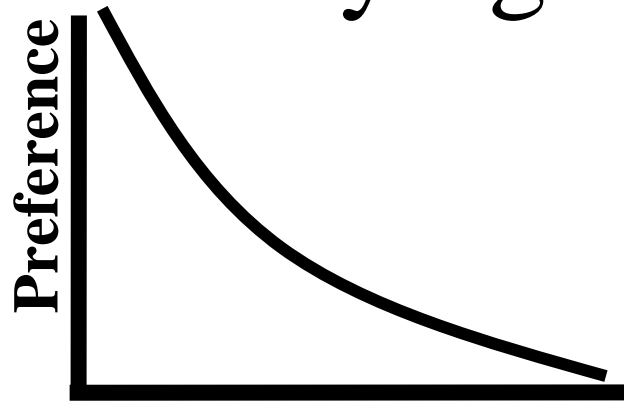
Energy is *updated*



# Energy Update



# Staying in or Joining a Flake

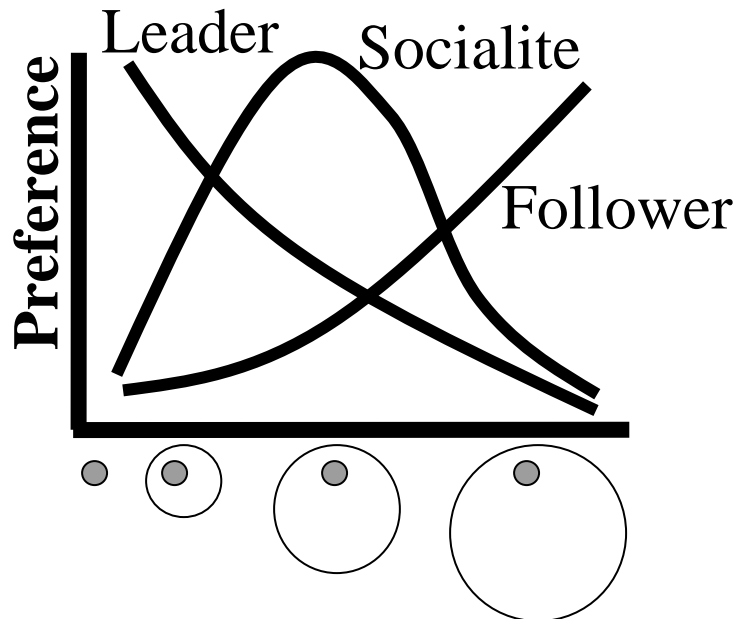


- Staying  
-rank  
-size

--leader prefers small

--socialite prefers medium

--follower prefers large



- Joining  
-reference  
-size

# Desired Outcome

- Individuals act “randomly”  
according to **probabilistic** *micro-laws*
- stable steady state *macro* (collective)  
behavior **emerges**.