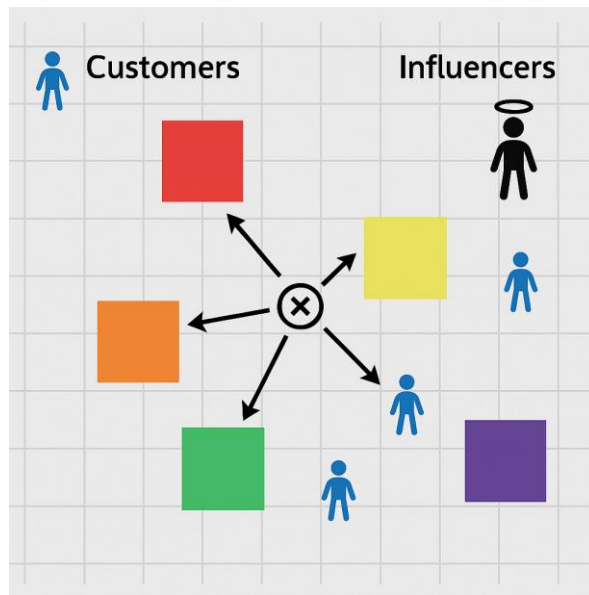# Restaurant Recommendation Ecosystem
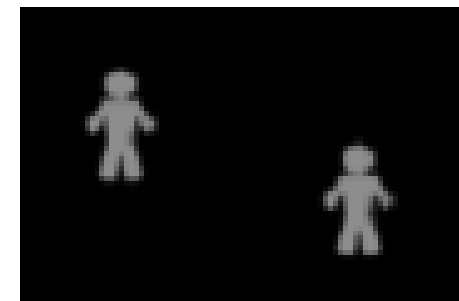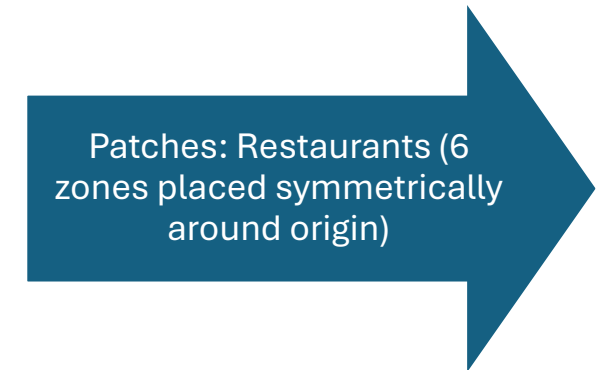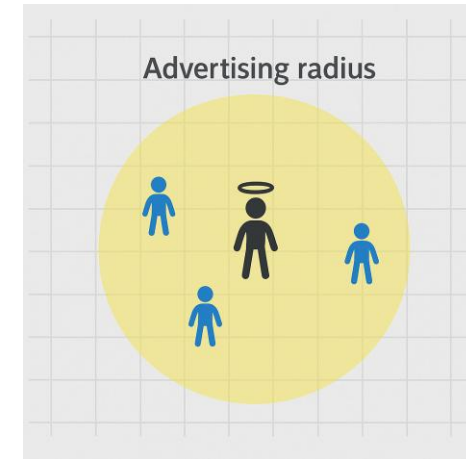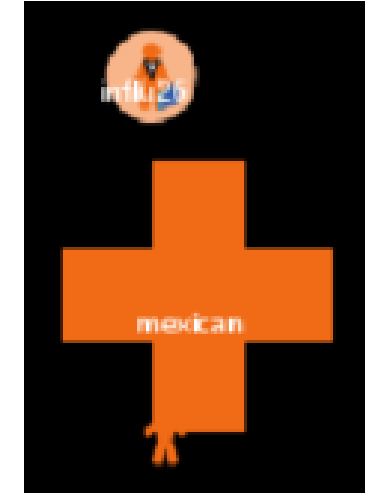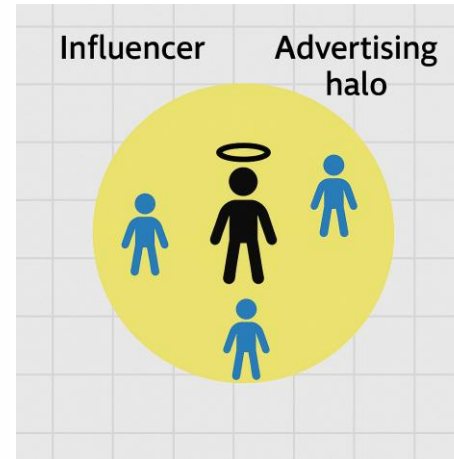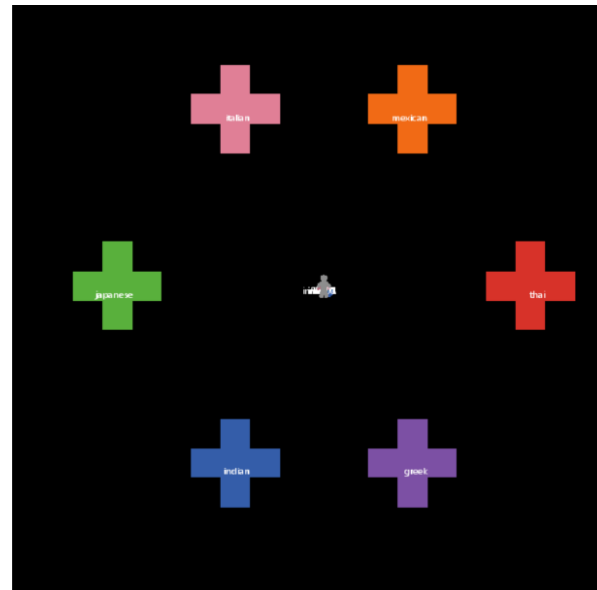
An Agent-Based Simulation of Social Influence on Restaurant Choice
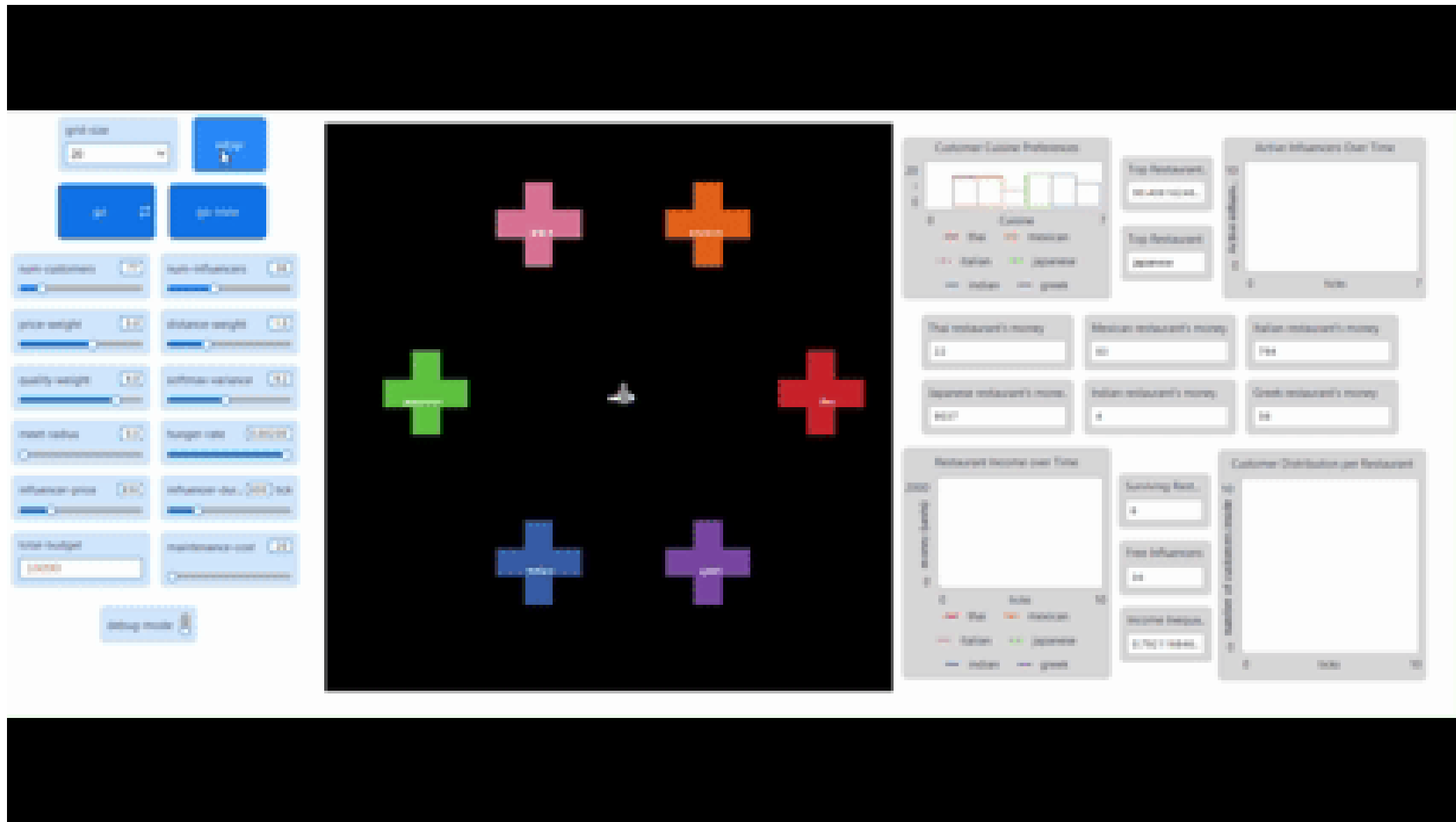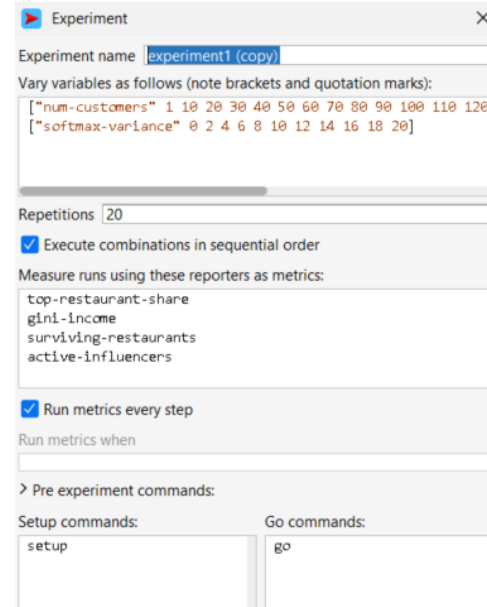
Prepared by:

Máté Kovács
U5BKY4

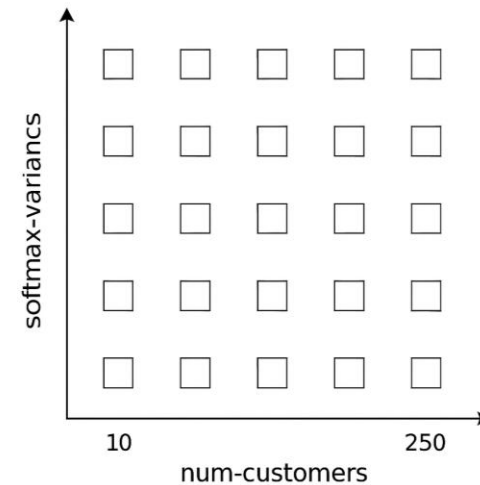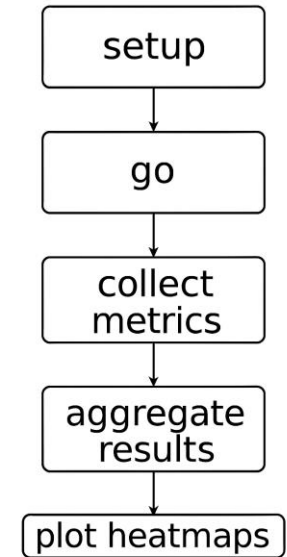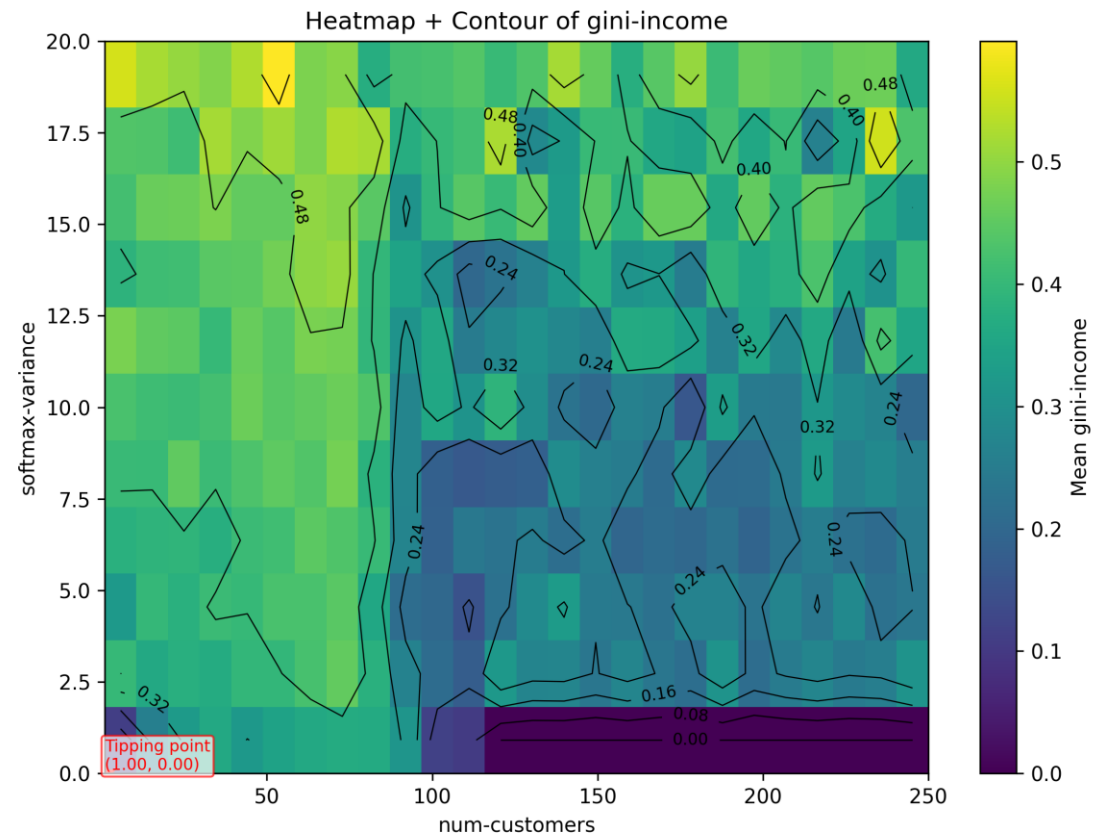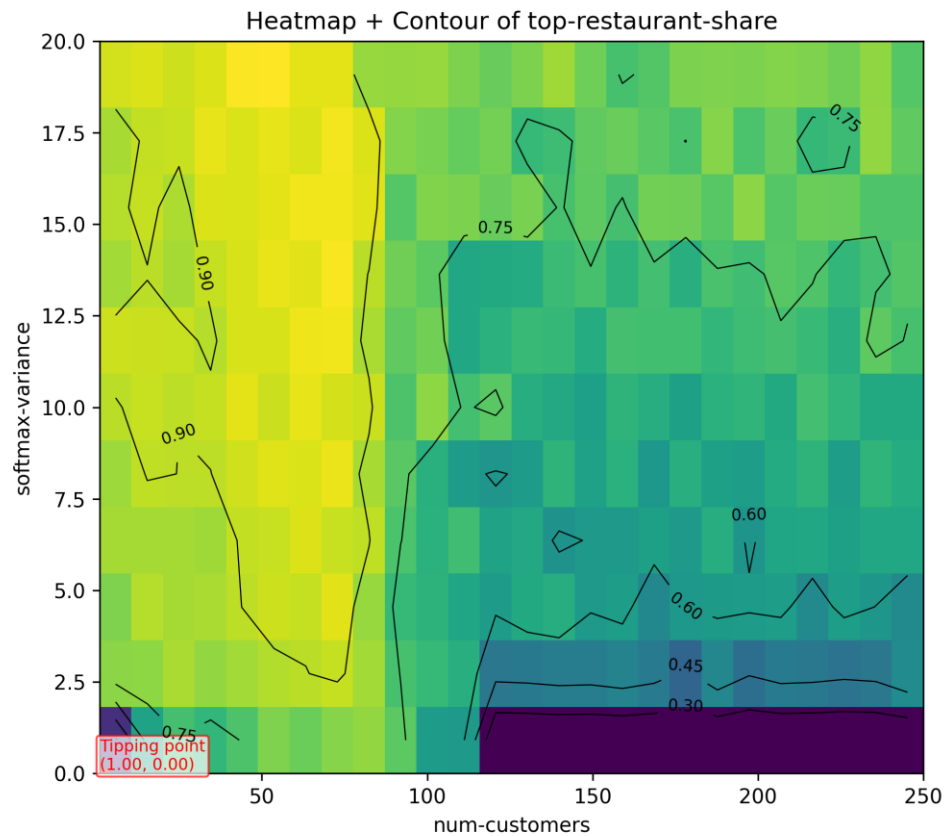# Model Overview

Demonstration

Experiments

- Factors: softmax-variance (0–20, step 2), num-customers (10–250, step 10).

- 20 repetitions per configuration, 10,000 tick limit.

- Metrics: gini-income, top-restaurant-share, surviving-restaurants, active-influencers.

- Expected transition around softmax-variance ≈ 5–7.

Heatmaps of Market Inequality

Representative Time Series for Different softmax-variance Regimes

Phase Transition & Takeaway