Reproducibility Check

This document should guide any user to running the simulation of a sneaker resale market. The project's results can all be recreated using the MATLAB file "Financial_Market.m". Users will need an up to date version of MATLAB to run the script. The user can use their own inputs and follow the ones from the project report.

Light Test

The user will be reproducing Figure 5 a from the report, reproduced here below. The process should only take 5-10 minutes. The user simply needs to open the MATLAB file "Financial_Market.m" from the folder in the git and run it with the following inputs:

n_agents : 1000

n_items : 200

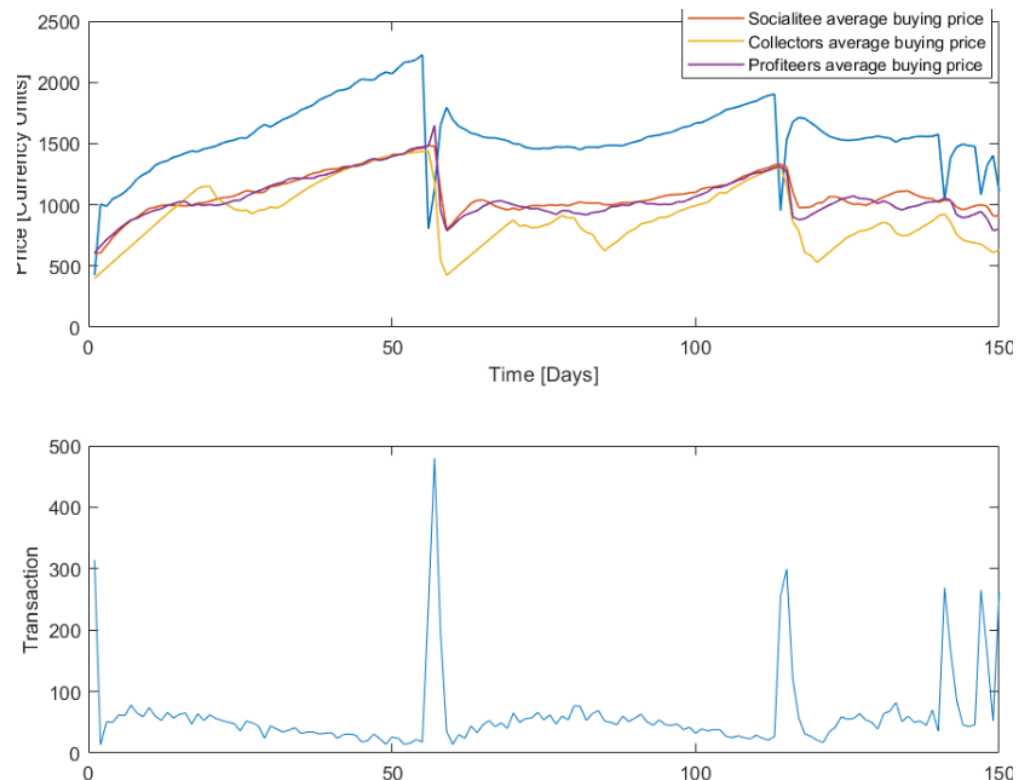price : 700

nbrands : 4

rndbrand : 1

timesteps : 150

Figure 5 a) Average buying prices from the different buyers and global average price. Bottom: Number of transactions each day.

Full Reproducibility

The user can follow along the report for full details on each simulation and why it was performed. The inputs necessary are listed below each figure. Depending on the performance of the user's computer, it will take 2-3 hours to reproduce all tests described in the report. The bulk of that time comes from the

single simulation run with 8000 agents. An hour should suffice to simulate the other tests with fewer agents.