User Manual

All the necessary code files will be given along with this document. To create this simulation, the simcx framework was used along with matplotlib. Here is a preview of the application files:

• main.py: This file contains the basic setup to run the simulation. Here is where it’s possible to change the variables which influence the environment. Its’ also where the Euler custom simcx iterator used to simulate the environment is.

Execution

To run our application, one needs only to execute the main.py file and press space after the graph pops out, after all the intended changes to the parameters are finished. After the execution starts, iteration milestones will be printed on the console while the graph interface shows the entire simulation.

To switch to the phase space simulation, uncomment “visualize = PhaseSpace”, inside of the “simcx” block

To utilize matplotlib mode, uncomment the “matplotlib” block, and comment the “simcx” block.