

Documentation

setup - Sets up the simulation, getting it ready to begin.

go - Starts the simulation. Works as a play/pause button.

ticks-a-year - Number of ticks corresponding to a year.

predetermined-scenarios - Defines a couple of predetermined scenarios to be used as an example of the functionality of the program.

Predetermined - Applies the scenario selected by

--- Mutation related ---

type-of-mutation - Defines what type of mutation both cicadas and predators go through.

mutation-with-same-cycle-hybridization - Allows for predators and cicadas to hybridize with individuals from the same cycle, giving birth to offspring that can have a different life cycle duration.

mutation-rate - Probability of mutation.

--- Cicadas ---

lower-lifecycle-duration-c - Sets the lower bound life cycle of cicadas.

higher-lifecycle-duration-c - Sets the upper bound life cycle of cicadas.

cicadas-progeny - Number of offspring of each cicada.

max-cicadas-per-cycle - Limits the number of cicadas per life cycle. Also sets the initial number of cicadas per cycle.

cicadas-one-year-cycles? - Limits the possibility of cicadas to have 1 year long life cycle.

--- Predators ---

predators? - Allows the existence of predators.

lower-lifecycle-duration-p - Sets the lower bound life cycle of predators.

higher-lifecycle-duration-p - Sets the upper bound life cycle of predators.

predators-progeny - Number of offspring of each predator.

max-predators-per-cycle - Limits the number of predators per life cycle. Also sets the initial number of predators per cycle.

predators-one-year-cycles? - Limits the possibility of predators to have 1 year long life cycle.

max-cicadas-eaten-per-predator - Number of cicadas a predator can eat per emergence.