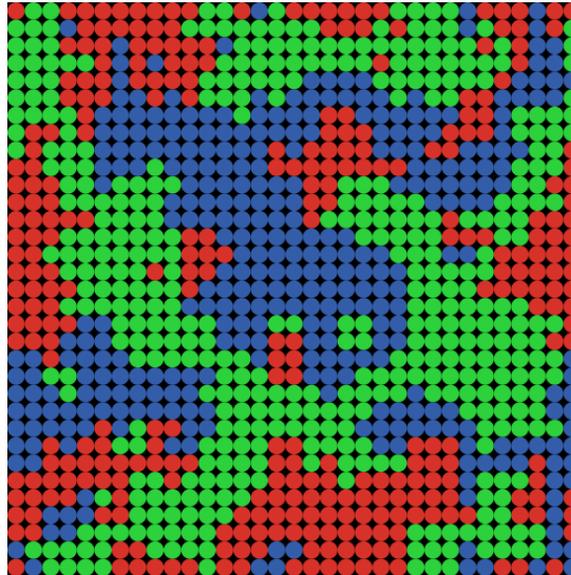


Lab 5: NetLogo Experiments with Rock-Paper-Scissors (part 2)



There is one NetLogo video lecture that accompanies this lab assignment: NetLogo and Rock-Paper-Scissors - part 2

Optional Assignment For Week 6:

The "NetLogo and Rock-Paper-Scissors - part 2" video develops much of the code you will be entering, running, and using in this lab. However, there are a few moments at which you're expected to complete the changes started in the video. The points awarded for completion of the model have been increased accordingly.

After you get the Rock-Paper-Scissors 2 (RPS2) program running, you are to design and run experiments with the aim of helping you to answer the following question, for a NetLogo world of size 33 X 33 or larger (i.e. `max-pxcor` and `max-pycor` both set to 16 or greater, with the origin in the center):

(Note: Your answers to these questions might not have changed substantially since part 1 - even if that's the case, the plot you added should provide additional foundation for your answers.)

- 1) Over the lifetime of the RPS "ecosystem", but prior to absorption (where one breed displaces the other two), does the ecosystem exhibit a consistent aggregate behavior, or do you observe multiple distinct modes or phases of behavior?
- 2) Regarding your answer to #1, how would you characterize the observed mode(s) of behavior, prior to absorption?

Grading Rubric for Rock-Paper-Scissors part 2 [5 points total]:

[2 points]: Attached the completed file in Blackboard Learn with the file name for full points, the model must include the changes described in the video, functioning correctly: `RPS2.firstname.lastname.nlogo`

Note: **DO NOT copy and paste** your source code into Blackboard Learn. You must **attach** the NetLogo source file.

********* After attaching, you **MUST CLICK SUBMIT *******

For full points, the model must include the changes described in the video, functioning correctly.

[1 points]: The "info" section of each your programs includes your name, the date and a description of what the program does.

[2 points]: Design and run experiments that attempt to answer the two questions described above. Describe your design, list the experiments you ran, report your results and state your conclusion. All this reporting must be included within the "info" tab of the `RPS2.firstname.lastname.nlogo` file you submit into Blackboard Learn.

Note: The points you earn for this section are **NOT** based at all on your conclusion. Rather, they are based on the on the following criteria:

- a) Is your experimental design well-conceived? This includes number of experiments run and ranges of values tested.
- b) Is your reporting clear, well organized and easy to read?