COMP_SCI 372/472, LRN_SCI 372/451 (MAM)
Designing and Constructing Models with Multi-Agent Languages

Final Project Proposal (due **May 2nd @ 11:59pm**)

What's Due

A proposal for your final project for the course. *The requirements for the final project are different for 400 level students than for 300 level students*. Please refer to the Final Project Overview you received last week. Please be prepared to virtually distribute copies of your proposal to class on Monday (May 3) as we will divide intro groups to discuss them.

Details

For *all* students:

Below is the suggested format for the proposal. Not every element needs to be filled in for the first draft of your proposal, though, please try to fill in as many as you can. Nothing here is final! You will get feedback from your fellow students, from the TAs, and from Prof. Wilensky before you commit to any given project.

Outline

1) Big picture: What is the phenomenon you'd like to model?
2) Rationale: Why is this an interesting phenomenon to model?
3) Why is this a good fit for using ABM?
4) Do you have a driving question formulated? If so, state it here.
5) Do you have a reference pattern in mind? If yes, describe it here.
6) What are the agents of your model? What are the turtle agents? What are the patch agents? Are there link agents?
7) What properties will the agents have?
8) What are the agent behaviors? How will agents interact?
9) What are the core parameters of the model that will be exposed in the interface?
10) Can you sketch a time step of your model?
11) What are the measures you will collect?

For 400 level students, there are additional requirements. 400 level students must both a) produce a more polished paper, *embedded in the relevant literature*, at a standard that could put it on a trajectory towards publication, and b) one of the following:

1) Create an additional HubNet activity that complements your NetLogo model.
2) Incorporate some other advanced NetLogo feature (e.g., LevelSpace or interfacing with hardware such as Arduino) into a complementary model.
3) Design and implement an extension to NetLogo.

Please provide a description of what additional features you are thinking of adding. If none of the above options work, is there something else you'd like to propose?