Life from Scratch

Introduction

Provide an overview of the problem and a literature review. You should address: what gap or question are you addressing? What has been done before?

Methods

Model Description

Describe how your model works in terms of its: agents, interactions, environment, model schedule/timing

- It's a good idea to use the PARTE and ODD frameworks as a guide
- Flow charts & visuals are good! Illustrate the sequence of events in your model using a flow chart. Show how the agents operate, how and when interactions happen, the sequence of events in each time step, etc.
- From your model description, someone should be able to implement a version of your model

Model Analyses

Describe the parameter settings you swept through and the analyses you ran. Someone should be able to recreate your analyses from your description, so be specific and complete!

- If your model is stochastic, you may need to run multiple trials at the same parameter settings.

Results

Provide qualitative and quantitative summaries of how your model behaves. Provide graphs and plots of model outcomes at different settings as needed.

Discussion

Return to the question or problem in your introduction—what do your results say about this problem? Put your results in a broader context. Describe the strengths, limitations, and potential future directions of your work.

- If you think there are still some bugs driving your model's behavior, this is the place to discuss this
- Also a good place to talk about how you might verify, validate, or extend the model in the future