Q1: github acc?

https://github.com/ahnthttps://github.com/Hintzelab/MABE

Q2: population = generation \* 4?

Population = 4 \* number of groups

Clone mode: total number of genotypes = population \* 4 \* number of generations

Group mode: total number of genotypes = population \* number of generations

Q3: if we set the lod resolution, will we have all the agents’ information?

No. lod just contain info of one of the groups at each generation

The variance of the rawColumn

pandas

python library -> DataFrames

D=read\_csv(“filename.csv”)

myColumn=D[“score

myColumn=D[“score”]

myC=list(D[“score”])

while len(myC)<50:

myC.append(myC[-1])

So, the comparison shows that rewarding scheme affects their behavior.

Question: I believe we should not consider two columns of score and own score. we should use only row scores, and make three more columns that are max, min and average and then based on them make the comparisons. However, score based on the rewarding scheme will be similar to one of them but because we need all of them it is better to have them for each row.

Question 1: from the graph with generation as x axis what can ve conclude?

Just in presentation talk about signals

Question 2: How should we deal with average of averages problem? Because we each replicate has its average. Then we have 21 replicates for each scenario so again we should make an average.

Make a big dataframe and make the average the last 10 generation of the 21 replicates.

What is the AI

Markov brain implemented in MABE. Markov brain is recurrent neural network (finite state machine).

Refernces:

Markov:

markov brains: Hintze, A., Edlund, J. A., Olson, R. S., Knoester, D. B., Schossau, J., Albantakis, L., ... & Bohm, C. (2017). Markov brains: A technical introduction. arXiv preprint arXiv:1709.05601

https://www.mitpressjournals.org/doi/pdfplus/10.1162/isal\_a\_016

Mabe:

Bohm, C., & Hintze, A. (2017, September). MABE (modular agent based evolver): A framework for digital evolution research. In Artificial Life Conference Proceedings 14 (pp. 76-83). One Rogers Street, Cambridge, MA 02142-1209 USA journals-info@ mit. edu: MIT Press.

https://arxiv.org/pdf/1709.05601.pdf