Prestige Model parameters:

Each agent begins with a unique belief.

Beliefs will change, but a record of beliefs over time is kept in each agents’ list of belief history [].

Each agent begins with 1 copy (aka prestige unit), but their number of self.copies (which are also kept in a list []) may grow differentially over time.

Current copying rule:

Copying is a function of prestige/distance:

* Find out how many copies (“prestige units”) all\_agents have (“neighbors copies”
  + all\_agents is list of all agents, an property of the agent scheduler in the model class
  + Neighbor distance is a parameter of the Prestige Model init class; you can set the distance in the run.py file
* Divide their prestige by their distance to you
* Normalize these ratios to give probabilities that sum to 1
* Among these “all\_agents”, find the agents with the highest probabilities, which becomes the “other\_agent”

You are allowed to copy yourself, and therefore maintain the same belief. If you don’t copy yourself, you change your belief to the “other\_agent”’s belief.

Calculating distance (Mesa space):

get\_distance

if self.torus:

pos\_1 = (pos\_1 – self.center) % self.size #take the difference between focal’s x-position and the center of the grid, then divide by the size of the grid and give remainder…?

pos\_2 = (pos2 – self.center) % self.size

Calculating the variance in beliefs between local and global populations:

2 variables: sigma\_global and sigma\_local

sigma\_global: looks at the length of the list [] of other agents (including yourself).