

Table 1: Semantic foraging ABM parameters and best fitting values

Parameter	Description	Best Troyer Norms	Best Similarity Drop
Number of Words	Number of words in semantic space	100	140
Perplexity (t-SNE)	The effective number of neighbors to which each point is attracted	30	50
Max Ticks	Number of ticks to run the simulation	350	350
Neighborhood radius	Moore neighborhood size of the agent	2	2
Patch memory size	Maximum number of empty patches in the agent’s memory	18	18
Local search sensitivity	Sensitivity parameter for local search	0.6	1.0
Global search sensitivity	Sensitivity parameter for global search	0.8	1.2

Table 2: Random Walk on semantic network parameters and best fitting values.

Parameter	Description	Best Troyer Norms	Best Similarity Drop
Threshold	Defines which similarity values will form node connections	0.48	0.39
Jump Probability	Probability of performing a jump to the starting node “ <i>animal</i> ” at each step	0.05	0.1
Max Ticks	Number of ticks to run the simulation	60	50