Semantic Foraging Agent-Based Model ():		
1 setup world		
2 let selected-word = 0		
	vhile ticks < max-ticks do	
4	if ticks = 0 do	
5	let selected-word min(words-distance)	
6 7	let word-list-nearby words-in-neighborhood let last-scent = 0	
8	if selected-word!= 0 do	
9	do move-to-selected-word	
10		
	if agent-position = word-position do	
11	do report-word	
12	do change-search-type else do	
13		
14	let word-list-nearby words-in-neighborhood	
15	if search-type = "global search" do	
16	if word-list-nearby > 0 do	
17	let scent-decision scent (word-list-nearby[norm-	
	frequency])	⊳ semantic scent
18	let current-scent scent-decision[value]	
19	if scent-decision[decision] = "report" do	
20 .	let selected-word RouletteWheelSelection (word-list-	
	nearby[log-frequency])	
21	let word-list-nearby list(words-in-neighborhood,	
21	ignored-words)	⊳ activate ignored words
22	else do	Ö
l '	let ignored-words do ignore-words-in-	
23		
24	if current-scent > last-scent do	
25	do move forward	
26	let last-scent current-scent	
27	else do	
28	do random-walk	
29	else do	
30	do random-walk	
31	else do	⊳ local search
32	if word-list-nearby > 0 do	v Total bearell
l '	let scent-decision RouletteWheelSelection (scent (word-	
33	list-nearby[similarity]))	s comentie coest
21	if scent-decision[decision] = "report" do	> semantic scent
34		
35	let weights word-list-nearby[similarity] * word-list-	
	nearby[log-frequency]	
36	let selected-word RouletteWheelSelection (weights)	
37	else do	
38	let ignored-words do ignore-words-in-	
	neighborhood	
39	let selected-word 0	
40	else do	
41	do change-search-type	