

Repeat **N** times:

1. Select random agent A with probability = **1/15**
2. With probability = **1/100** let agent A add a new distributed vowel
3. Select random neighbour B with probability = **1/4**
4. Play the imitation game:

1. **A**: Select random vowel **v_A** from repertoire, synthesise and send it. If no vowels in repertoire, generate random vowel.
 2. **B**: Receive synthesised vowel **v'_A** and find the closest repertoire match **v_B**. If no vowels in repertoire, generate new vowel as close as possible to **v_A**.
 3. **B**: Send synthesised closest match **v'_B** as response.
 4. **A**: Receive synthesised response **v'_B** and find closest repertoire match.
 5. **A**: Send *True* if closest match is **v_A**, otherwise send *False*.
 6. **B**: Receive success boolean. If *True*, shift **v_B** closer to **v_A**, if *False* and **v_B** success rate is > 0.5, move **v_B** away from **v_A** and generate new vowel as close as possible to **v_A**, otherwise still shift **v_B** closer to **v_A**.
5. Let all agents merge their vowels until no merges can be done
6. With probability = 1/10 let all agents remove their bad vowels

