Assignment 2

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**Instructions**

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* This assignment must be completed individually.
* While discussing the problem with classmates is permitted, copying code is strictly prohibited and will result in sanctions.
* To successfully complete this assignment, students are encouraged to utilize the material covered during the course.
* The assignment should be submitted as NetLogo file (\*\*\*Assignment \_\*\*.nlogo) via email to eduardo.tapia@liu.se. Please include your name and LIU-ID in the file.
* The deadline for the assignment is May 9, 2025.

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Content

In our diffusion model (Lab4\_3.nlogo), agents become “infected” either through Simple Contagion or Complex Contagion. We now extend this model by introducing a new diffusion type: Simple Contagion Modified. In this variation, agents that are asked to change their color to red will decide whether to accept the change based on a given probability P. If an agent does not accept the change requested by the sender, she will save the sender's ID in her blacklist and share that ID with another randomly chosen agent who has not yet been infected. This second agent will also add the sender's ID to her blacklist. Under this new specification, agents check whether the sender’s ID is on their blacklist. If it is, they will never change color in response to that sender, regardless of the probability P. Furthermore, at the beginning of the simulation, agents have an empty blacklist.

Use print statements to showcase the behavior and dynamics of this new diffusion type in action.