Vaishali Kumanan

ICS 4UI

Mr. Wilhelm

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What this models:

This automaton models the interest in a popular subject within a given population. All popular songs, dances or sayings are first judged by individuals. Their opinions are formed solely on what they perceive. After having formed an opinion, it can change depending on what other people think. If most people surrounding an individual have positive views, it’s likely the individual will also have develop positive views on the subject whether it be by changing their perspective or maintaining it. The same thing can happen with a negative opinion. However, this is not necessarily always the case. Some people will maintain their like or dislike, or they may randomly change their opinion due to other external factors.

States of a cell:

A cell can either be red or blue. Red cells represent people who have formed a negative opinion on the subject and blue cells represent people who have formed a positive opinion on the subject.

Evolution Rules:

1. If a cell is surrounded by 3 blue cells (people who like the subject), its colour remains the same (the person’s opinion does not change)
2. If a cell is surrounded by more than 6 blue cells, it turns red in the next generation (develops or maintains a negative view on the subject). This is because it can get annoying when too many surrounding people enjoy something and talk about it nonstop.
3. If a blue cell is surrounded by more than 4 red cells, it becomes red in the next generation.
4. If a red cell is surrounded by more than 2 blue cells, it becomes blue in the next generation.

Example:

4 surrounding red cells

4 surrounding blue cells

5 surrounding red cells

3 surrounding blue cells