

The Prisoner's Dilemma

cellular automaton

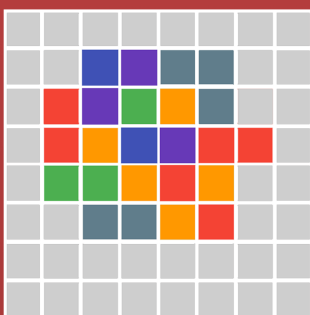
The prisoner's dilemma is a well known paradox that demonstrates why two completely rational individuals might act in their own self-interest even if their course of action does not result in the ideal outcome.

In this dilemma, two members of a criminal gang are imprisoned after committing a minor crime. The prosecutors are convinced that they are involved in a recent bank robbery and thus give them two choices : remaining silent, or rat out their partener.

Their choices will affect their sentence.

| | | Prisoner 2 | |
|------------|-----------|--|--|
| | | Cooperate | Betray |
| Prisoner 1 | Cooperate | Both half a year in prison | Prisoner 1, ten years in prison Prisoner 2, is free |
| | Betray | Prisoner 1, is free Prisoner 2, ten years in prison | Both five years in prison |

cellular automaton



grid

A grid is filled with cells, each of them playing the prisoner's dilemma with their neighbors.

Each cell has a strategy and an associated color.

Data about the game is then plotted on graphs



data plotted on graphs

made with

