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Epidemic simulation of Covid-19 virus in some countries, using a 2D cellular automata

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An epidemic simulation of Covid-19 virus was made, it was done using cellular automatas wich have been used for epidemic studies since their creation in XX century. Under the current situation due to the Covid-19 virus there have been various estimates of the advance of the decease using a lot of methods, however most of them fail to calculate the total number of not-sick infected. Based on that, real data of some countries population and the respective fractions of health, sick and infected people of them was taken and using a Hodge-Podge Machine (2D cellular automata used for chemistry reactions study) consisting of a mesh where each cell represents a fraction of the studied population, the searched simulation was made. This was made with the goal of finding a easy, viable, accesible and cheap method to estimate the total number of infected people relative to the total population of a determinated studied region.

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