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Game of Life

Rules of the Game of Life

Life is played on a grid of square cells--like a chess board but extending infinitely in every direction. A cell can be *live* or *dead*. A live cell is shown by putting a marker on its square. A dead cell is shown by leaving the square empty. Each cell in the grid has a neighborhood consisting of the eight cells in every direction including diagonals.

To apply one step of the rules, we count the number of live neighbors for each cell. What happens next depends on this number.

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Game of Life

Note: The number of live neighbors is always based on the cells *before* the rule was applied. In other words, we must first find all of the cells that change before changing any of them.

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The Gaia hypothesis

The Gaia hypothesis is an ecological hypothesis proposing that the biosphere and the physical components of the Earth (atmosphere, cryosphere, hydrosphere and lithosphere) are closely integrated to form a complex interacting system that maintains the climatic and biogeochemical conditions on Earth in a preferred homeostasis.

Originally proposed by James Lovelock as the earth feedback hypothesis, it was named the Gaia Hypothesis after the Greek supreme goddess of Earth.

The hypothesis is frequently described as viewing the Earth as a single organism.

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