<https://towardsdatascience.com/a-simple-genetic-algorithm-from-scratch-in-python-4e8c66ac3121>

* Genetic Algorithms mimic the process of natural selection instead of mathematical tricks
* It is founded on the Survival of the Fittest. Those fittest individuals then mate with each other, giving rise to a new generation. Nature also adds a bit of randomness in the form of mutations to the genome
* The result is a consistent improvement from generation to generation
* Application to staff planning
  + Staff planning is a topic of optimization research that comes back in many companies. As soon as a company has many employees, it becomes hard to find planning that suits the business needs while respecting certain constraints
* Steps of a genetic algorithm
  + How to encode the data for the genetic algorithm
  + How to evaluate the genetic algorithm’s solution
  + How to code mating (cross-over) for the genetic algorithm
  + How to code mutations for the genetic algorithm
  + How to define selection for the genetic algorithm
  + How to define iterations and stopping for the genetic algorithm
* Here is the notebook he is using: <https://jooskorstanje.com/Genetic-Algorithm-from-scratch.html>