Genetic Algorithms I.

By using the Genetic Algorithm, let's "breed" the "Hello world" string!

Features: Result

- 1. An individual is a string
- 2. A gene is one character in the string (ASCII code)
- 3. Filling the first generation with *randomly selected* characters between [32 122] ASCII values

Initial parameters:

- 1. Population size: 10,000 individuals
- 2. Maximum iteration: 500
- 3. Elite rate: 10%
- 4. Mutation rate: 20%

Genetic Algorithms I.

```
The highest goodness of the 1. generation: 115, Q;iri'O klY
The highest goodness of the 2. generation: 64, Mwimi$Qqobj
The highest goodness of the 3. generation: 67, Yblqp Lpbsj
The highest goodness of the 4. generation : 33, ?fgkk%Yrplc
The highest goodness of the 5. generation : 33, Eipip"Rklkd
The highest goodness of the 6. generation : 23, Dclqq Znpoe
The highest goodness of the 7. generation: 19, Khjlm!Xpqib
The highest goodness of the 8. generation : 12, Ifmmg Wnrof
The highest goodness of the 9. generation: 13, Fgllg"Wgpkd
The highest goodness of the 10. generation : 14, Lejln"Xlqld
The highest goodness of the 11. generation : 5, Helkn!Wnrlc
The highest goodness of the 12, generation: 8, Bdllo Wogld
The highest goodness of the 13. generation : 5, Felmo Vorle
The highest goodness of the 14. generation : 4, Gelko"World
The highest goodness of the 15. generation: 3, Hemko Wormd
The highest goodness of the 16. generation: 3, Hello!Xorle
The highest goodness of the 17. generation : 3, Gellq World
The highest goodness of the 18. generation : 3, Gelln Woqld
The highest goodness of the 19. generation : 4, Gelkp Woqld
The highest goodness of the 20. generation : 2, Iello Wosld
The highest goodness of the 21. generation : 2, Hello!Xorld
The highest goodness of the 22. generation: 1, Hdllo World
The highest goodness of the 23. generation: 0, Hello World
Elapsed time is 4.688372 seconds.
```