## \(\lambda\) Lounge

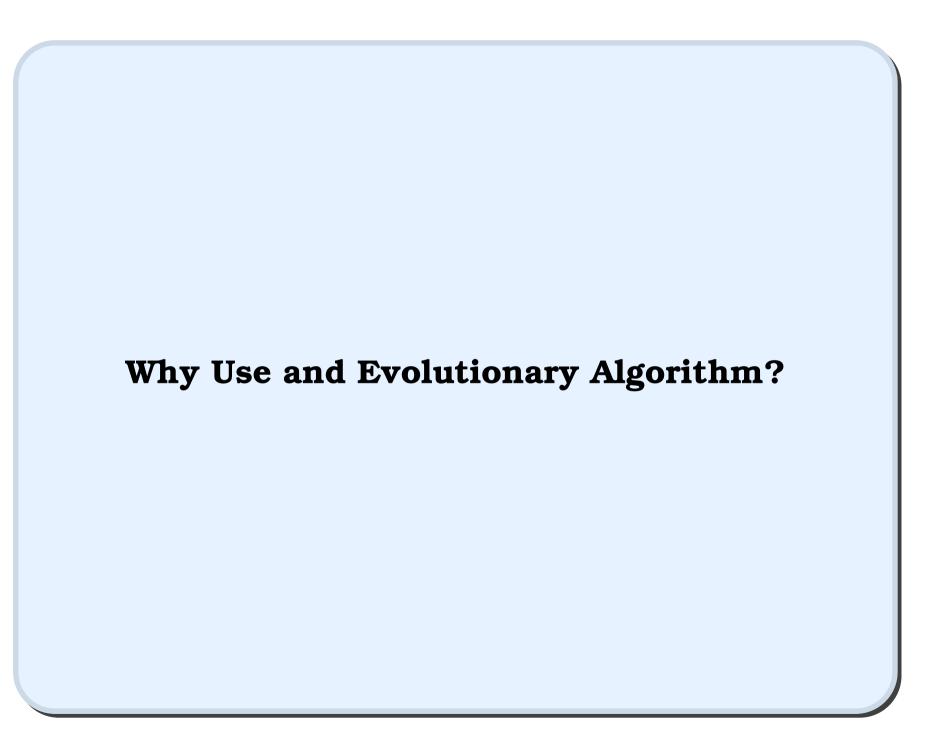
## **Evolutionary Algorithms**

**Christopher Mark Gore** 

http://www.cgore.com

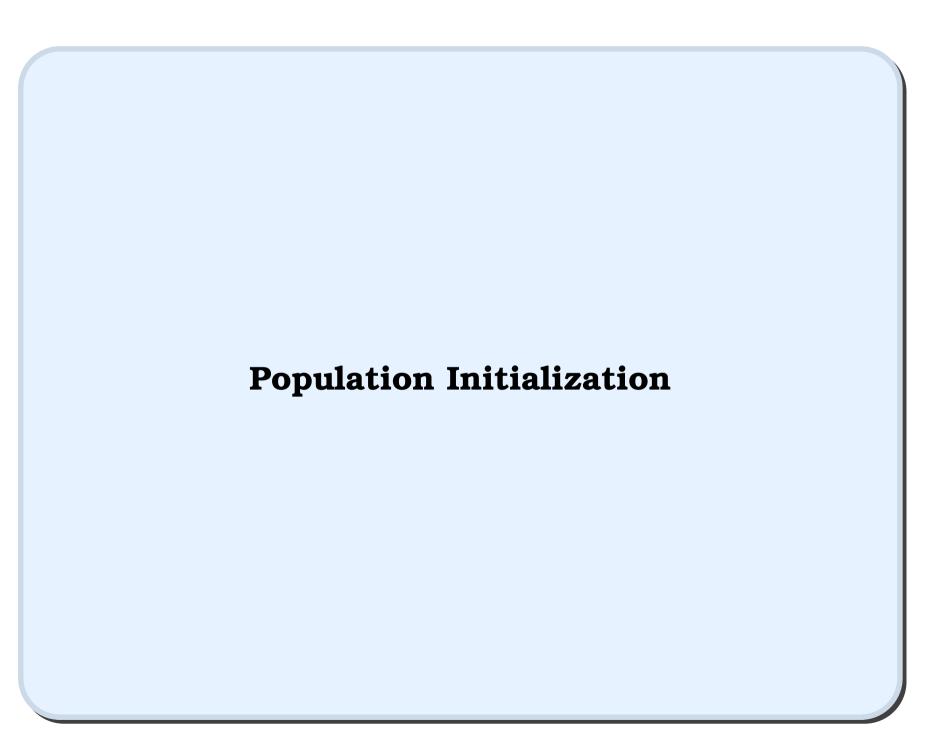
cgore@cgore.com

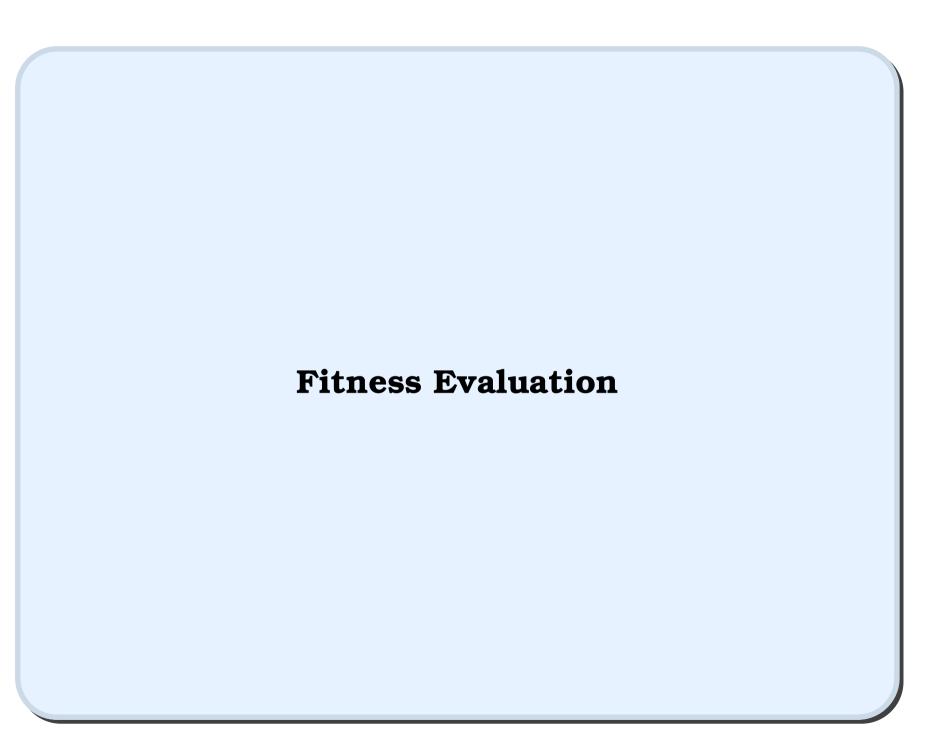
Thursday, March 1, 2012

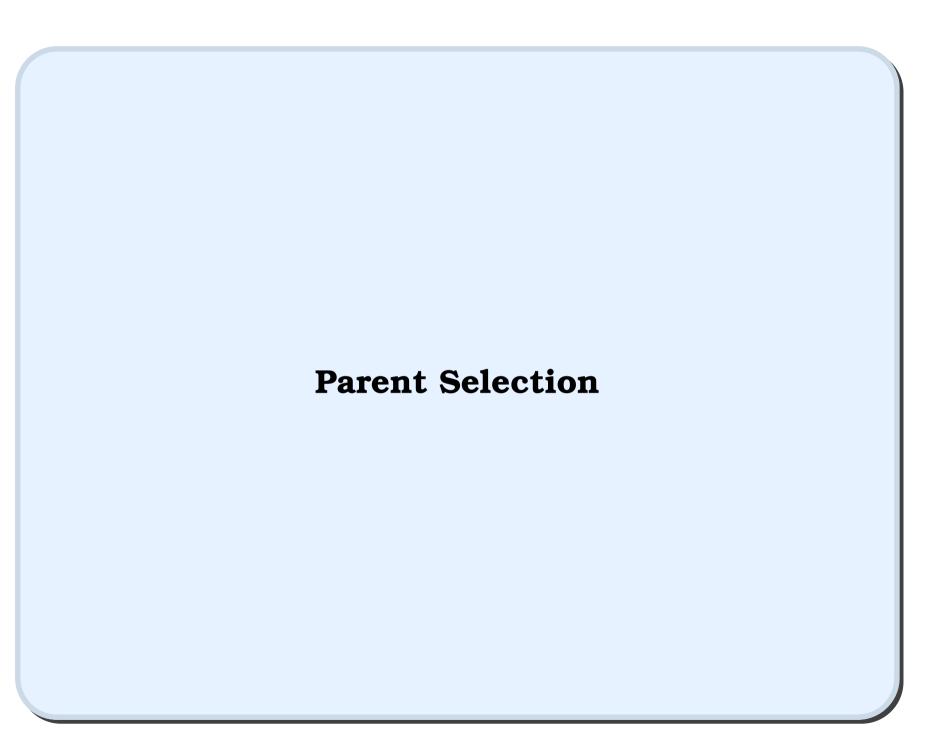


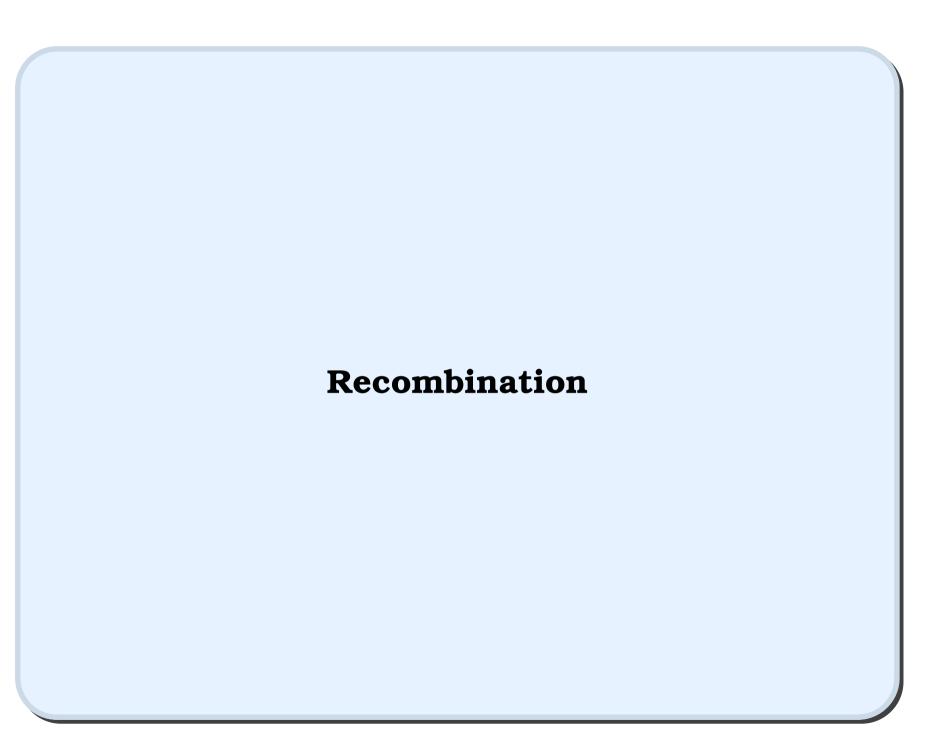
## The Evolutionary Algorithm

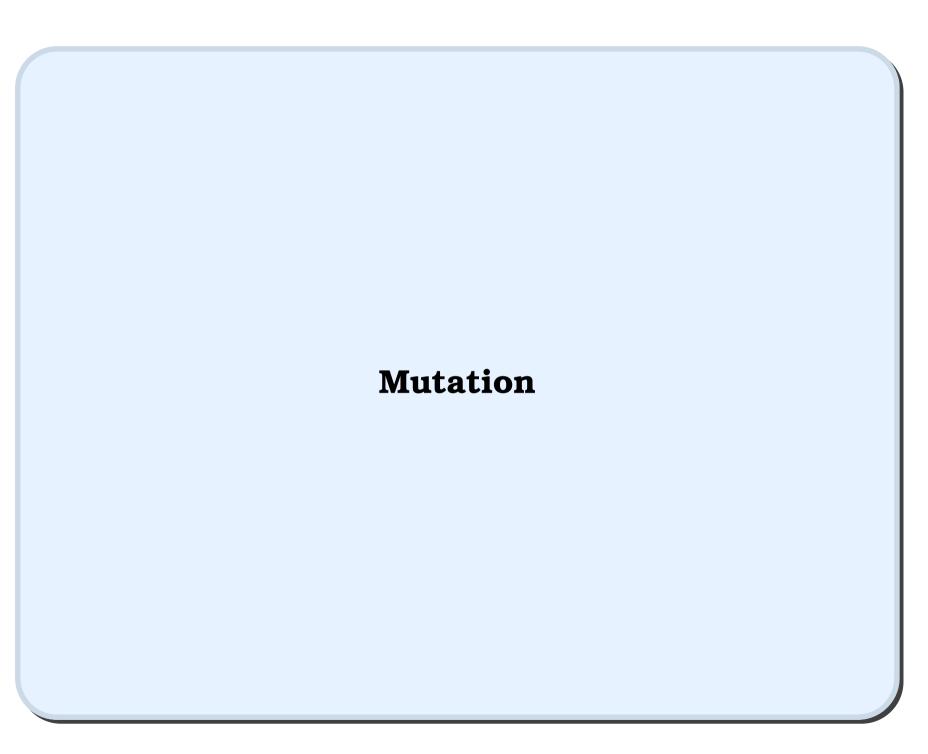
- 1. Population Initialization: generate a new population.
- 2. Fitness Evaluation: rate each member of the population.
- 3. Repeatedly:
  - (a) Parent Selection: choose who to breed.
  - (b) Recombination: cross the parents.
  - (c) Mutation: applied to the offspring.
  - (d) Fitness Evaluation: usually just the new offspring.
  - (e) Survivor Selection: kill off the weak.

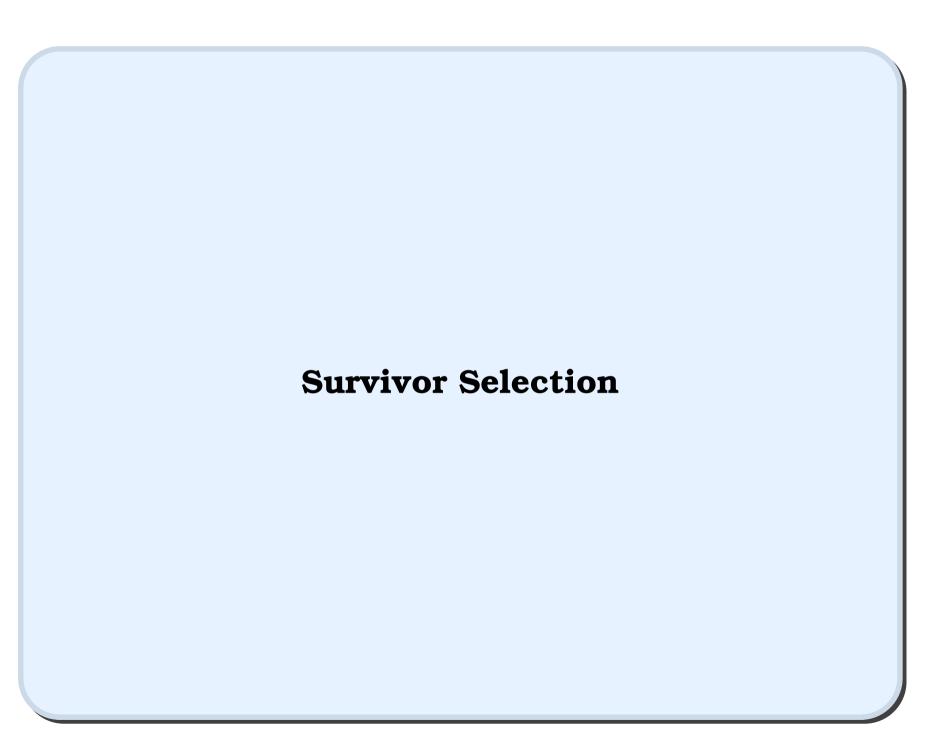












## Questions?