

Genetic Algorithms

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Genetic Algorithms

- What are they?
 - Evolutionary algorithms that make use of operations like mutation, recombination, and selection
- Uses?
 - Difficult search problems
 - Optimization problems
 - Machine learning
 - Adaptive rule-bases

Theory of Evolution

- Every organism has unique attributes that can be transmitted to its offspring
- Offspring are unique and have attributes from each parent
- Selective breeding can be used to manage changes from one generation to the next
- Nature applies certain pressures that cause individuals to evolve over time