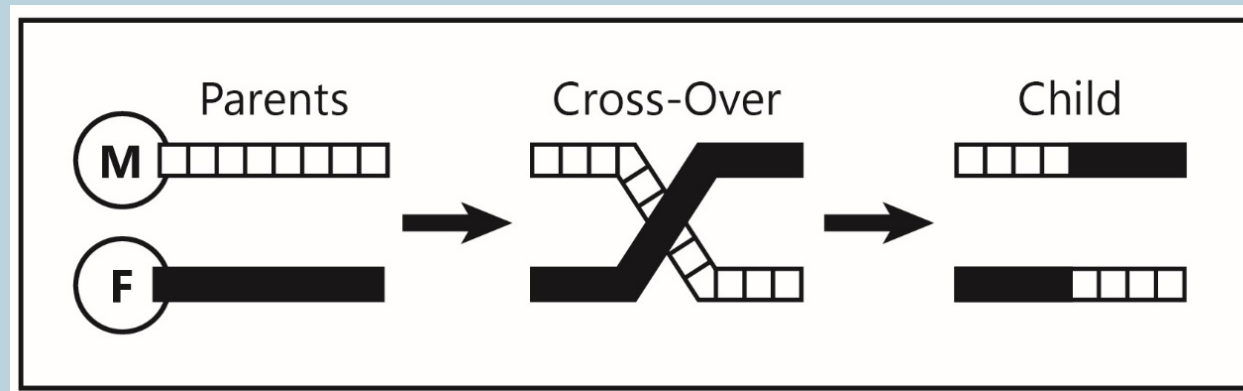# Evolutionary / Genetic Algorithms

- Search for a learned concept using a method analogous to biological evolution.

- Can be applied to many ways of representing concepts (e.g. rules, trees, neural-networks).

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Genetic Algorithms for Concept Search

- Create new concepts to test using cross-over on concept representations.

- Keep a fixed population of concepts that fit the training data the best and iterate to simulate evolution until an adequate concept is found.

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Weaknesses of Evolutionary Approach

- Natural selection can be a slow process and more directed approaches to finding effective concepts frequently outperform it.

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