Good Afternoon, Colleagues

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- How did Darwin United do?
- Darwin fitness function - why ordered in that way?
- Should we use human positional notions?
  - Can skills affect positioning decisions?
Logistics

- Project partners?
Logistics

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- Teams to compete against
Logistics

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- Example projects
  - Plays: give and goes
  - Communication: what and when?
  - Offside trap: coordination
  - Coordination graphs
  - Simple ant-like rules
  - Evolve a team
  - Learn a goalie
  - Everything it takes to win
Evolutionary Computation

- Motivated by biological evolution: GA, GP
Evolutionary Computation

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- Search through a space
Evolutionary Computation

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  - Need a **representation, fitness function**
  - Probabilistically apply search operators to set of points in search space
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- Randomized, parallel hill-climbing through space
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Some slides from *Machine Learning* (Mitchell, 1997)
Darwin United

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- Success of the method, but not pursued
Class Discussion

Laura Massey on when GP is useful