

Should Compute or Fitness Function be expended to evaluate position in search space?

Q) Can expected value be applied to prioritize expenditure of resources?

$$\text{Action} \left(\begin{aligned} & ((\text{Expected Benefit} - \text{Cost}) \cdot P_{\text{Success}}) \\ & - (\text{Cost} \cdot P_{\text{Failure}}) \end{aligned} \right) = EV$$

Take available action w/ highest expected value.

Are reproductive/exponentially explosive elements that force reality into different local maxima (aka blade of grass model) a necessary? and/or sufficient? component of a good modeling environment?

The state transition graph
w/ coupling between different domains
couples many ideas together

— Turing machine

- 3 Domains: System State/Program, Address, Value
- Coupling between 3 Domains

— Particle model

- Particles as resources that allow transitions

— Lock model

- regions in one domain are locked off
by restriction in transitions based
on state in another domain

— Quantum Physics

- reducing allowed states by coupling

Coupling between
Domains

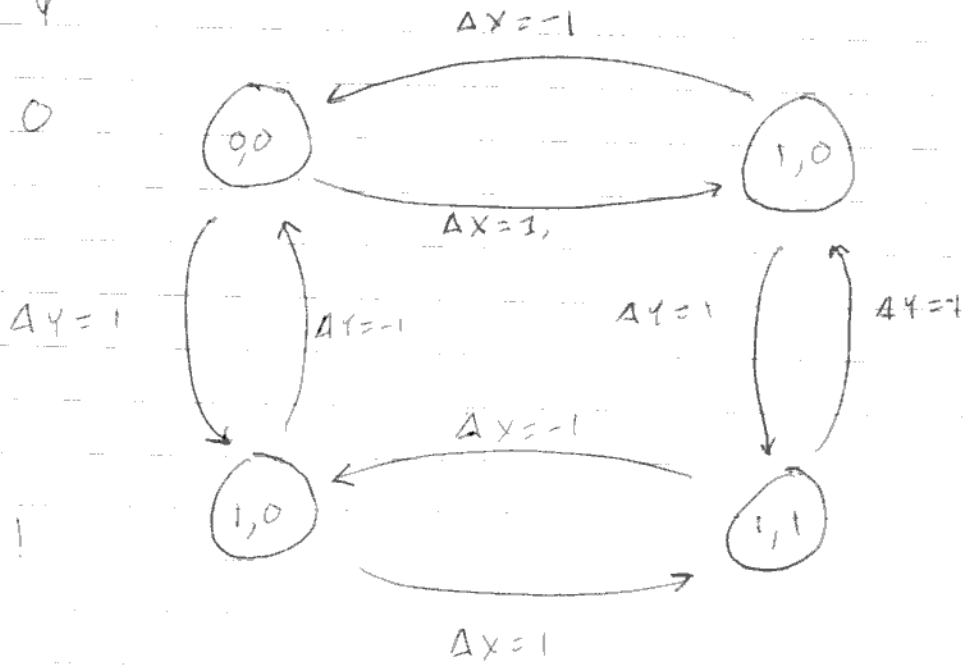
Fundamental concept
in transforms +
compute

Q Domain

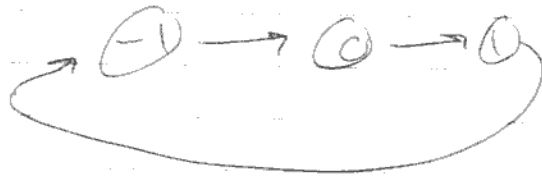
X 0

Y

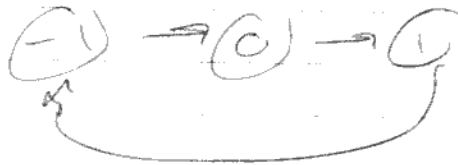
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X Domain



Y Domain



Q) Abstraction - how does this scale across all material

Q) why is there linkage between domains

Q) what is the minimum/most likely set of domains and couplings to produce something similar to our reality

Q) how does this explain spontaneous order

Q) how do we model this

Independent Domains

locks require intersection of Domains

At least X Domains are required