



Radboud University Nijmegen

Behavioural Science Institute

Complexity Science - Science of the Individual - Systems Biology

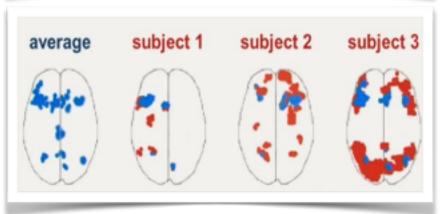
Idiographic versus Nomothetic goal of scientific explanation

Idiographic Science

Principle of jaggedness

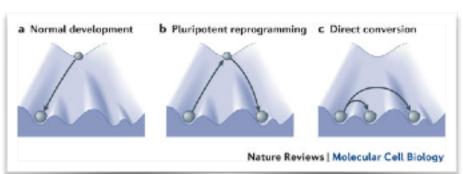
no individual corresponds to average



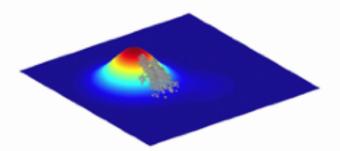


Principle of pathways

multiple trajectories to 'success'



Dynamic fitness landscape



Population size, N = 2,304 Mutation rate, µ = 0.5 per trail

Principle of context

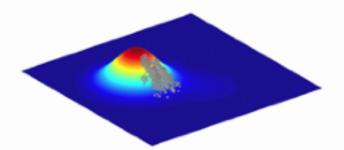
no behaviour is context independent



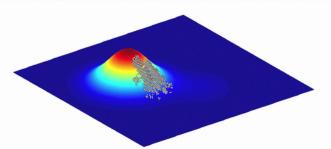
THE FAILERS...

struggled more in stressful situations
had more trouble paying attention
had greater difficulty maintaining friendships
scored lower on the S.A.T. (by over 200 points)
prone to a much higher higher body-mass index
were more likely to have drug addictions

Dynamic fitness landscape

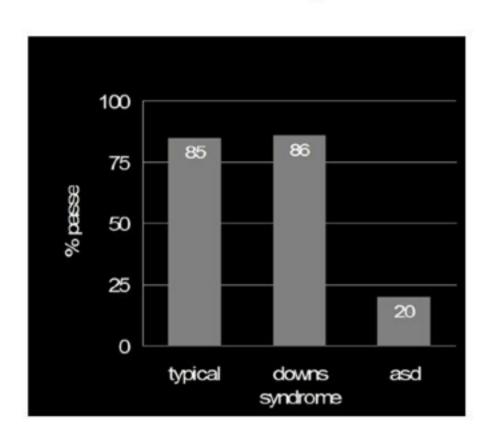


Dynamic fitness landscape





Sally-Anne problem



Baron-Cohen, Leslie, and Frith (1985) Social and emotional problems secondary to cognitive problem



only four of the 20 autistic children (20%) answered correctly

theory of mind?