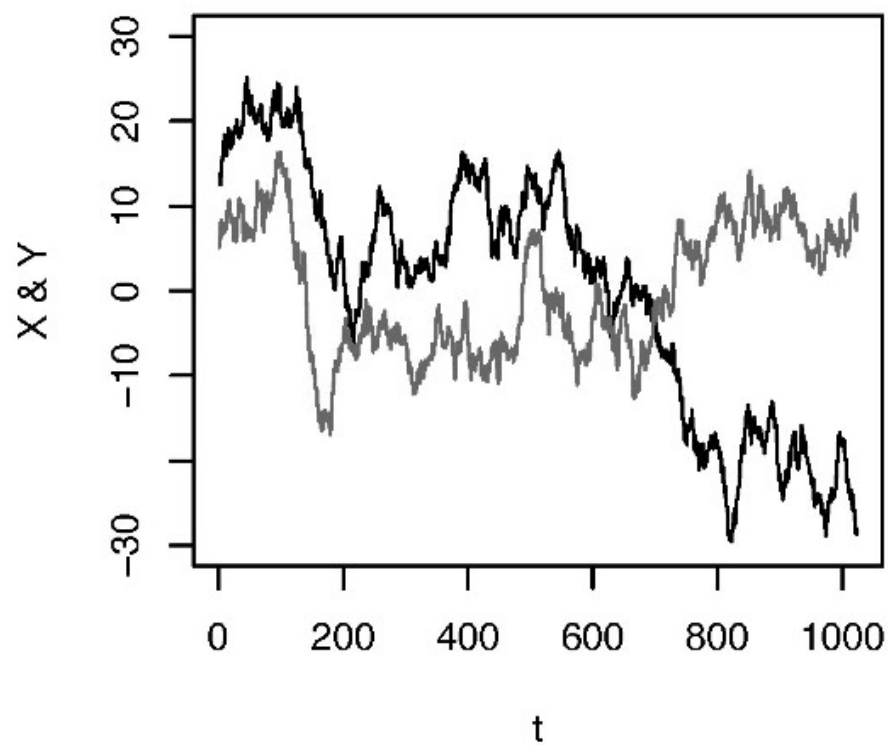


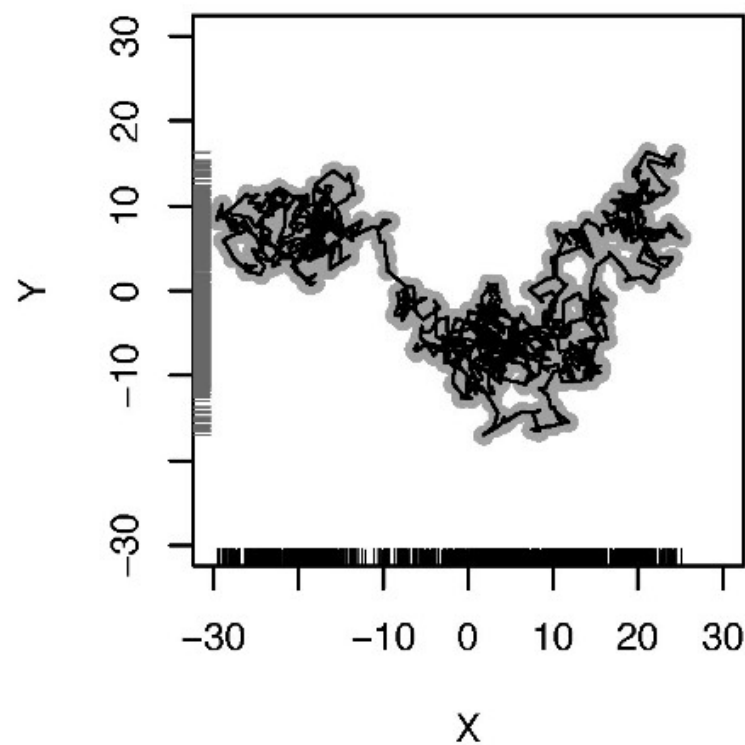




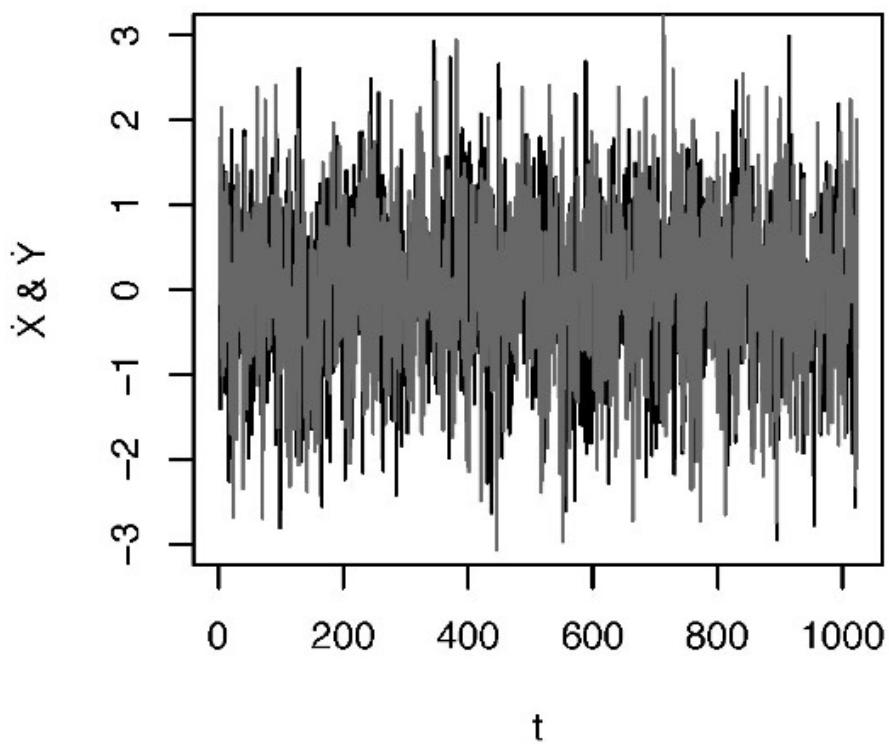
Dimension X & Y



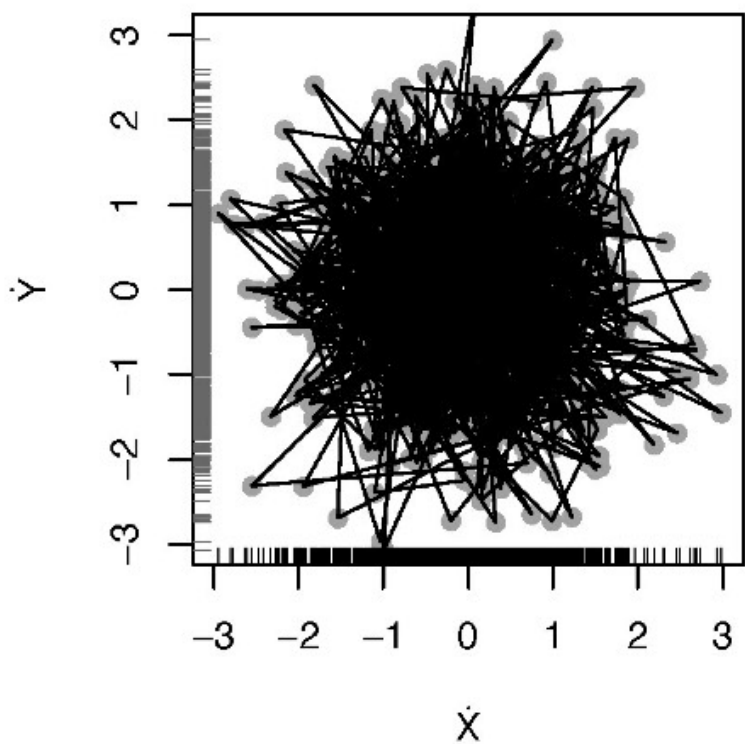
2D State Space of MiniMeS



First Derivative of Dimension X & Y



2D State Space of MiniMeS Derivatives



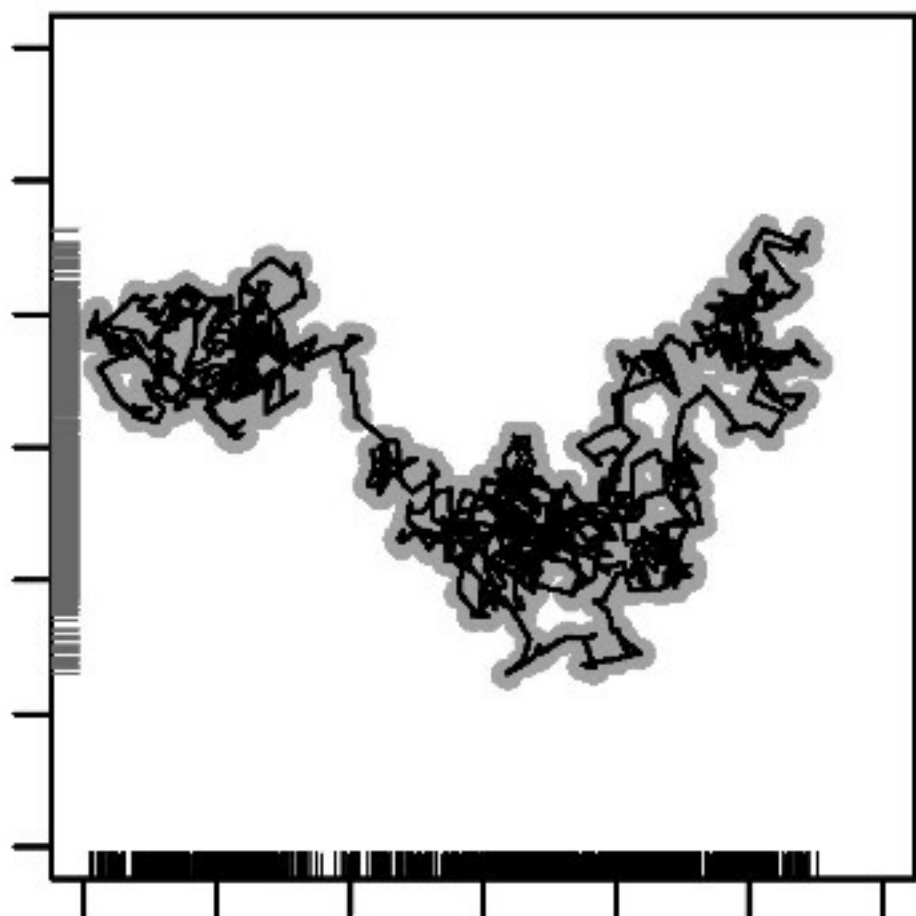
- State Space (X & Y):
The degrees of freedom MiniMe has to generate its behaviour (move)

- This is a random walk, Brownian motion: Add a random number drawn from normal distribution to current number.

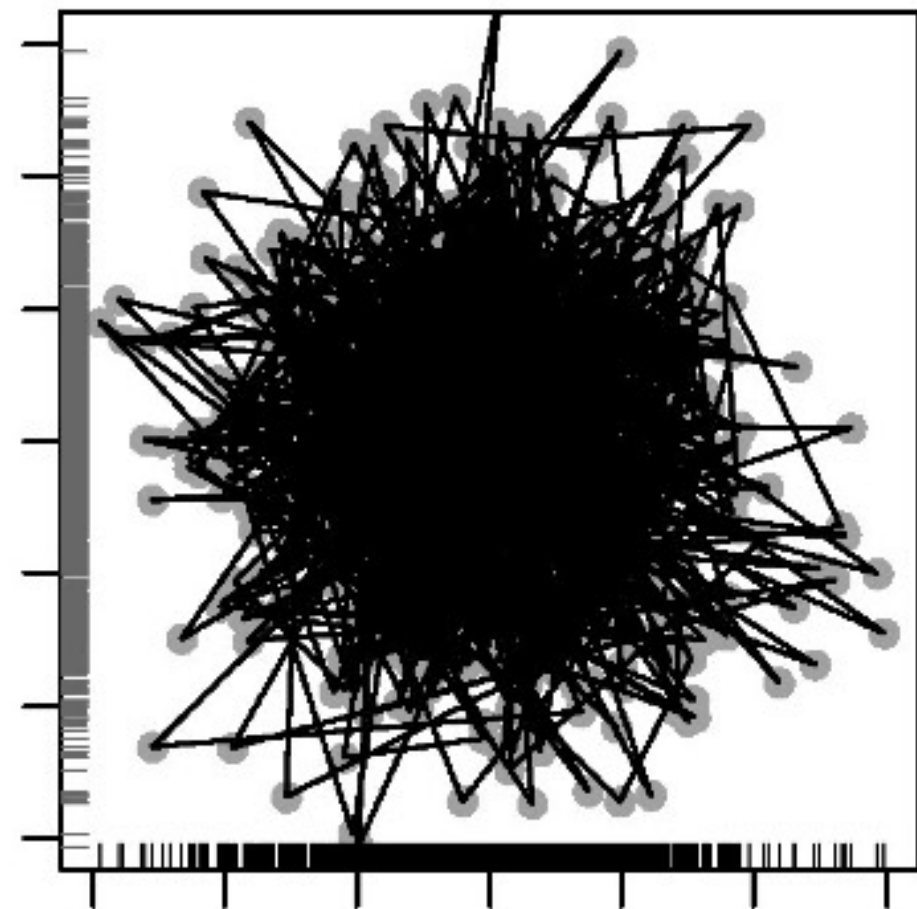
- Where does the apparent order come from? It's a random process!!!!



2D State Space of MiniMeS



State Space of MiniMeS Derivatives





‘Simple’ rule reduces degrees of freedom to move around:

Matter has to occupy finite space & movement takes time (no teleportation yet)