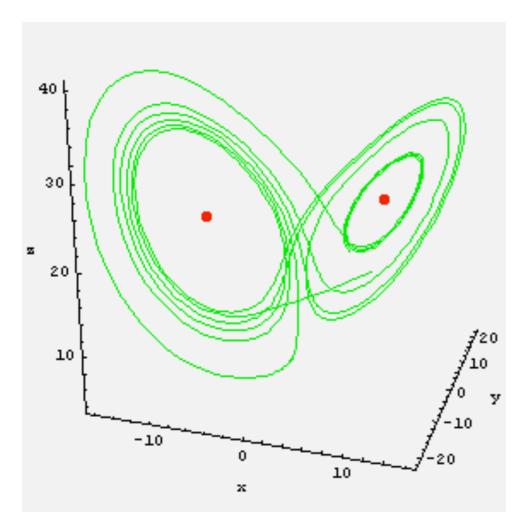
Lorenz Attractor



$$\frac{dx}{dt} = a(y - x),$$

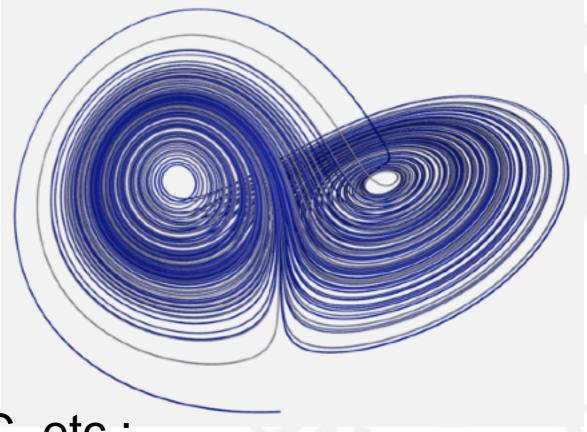
$$\frac{dy}{dt} = x(b - z) - y,$$

$$\frac{dz}{dt} = xy - cz.$$

Deterministic Chaos

Maps: linear map, 1D state space

Flows: Need 3 coupled ODEs (ordinary differential equations) Minimum is 3D state space



Lorenz about chaos, fractals, SOC, etc.: "Study of things that look random -but are not"

Double Pendulum - Small Displacement

