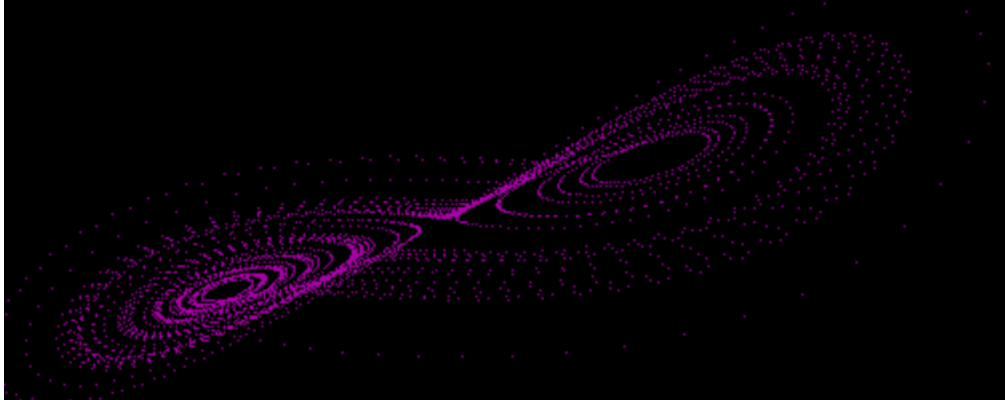


The Lorenz Attractor

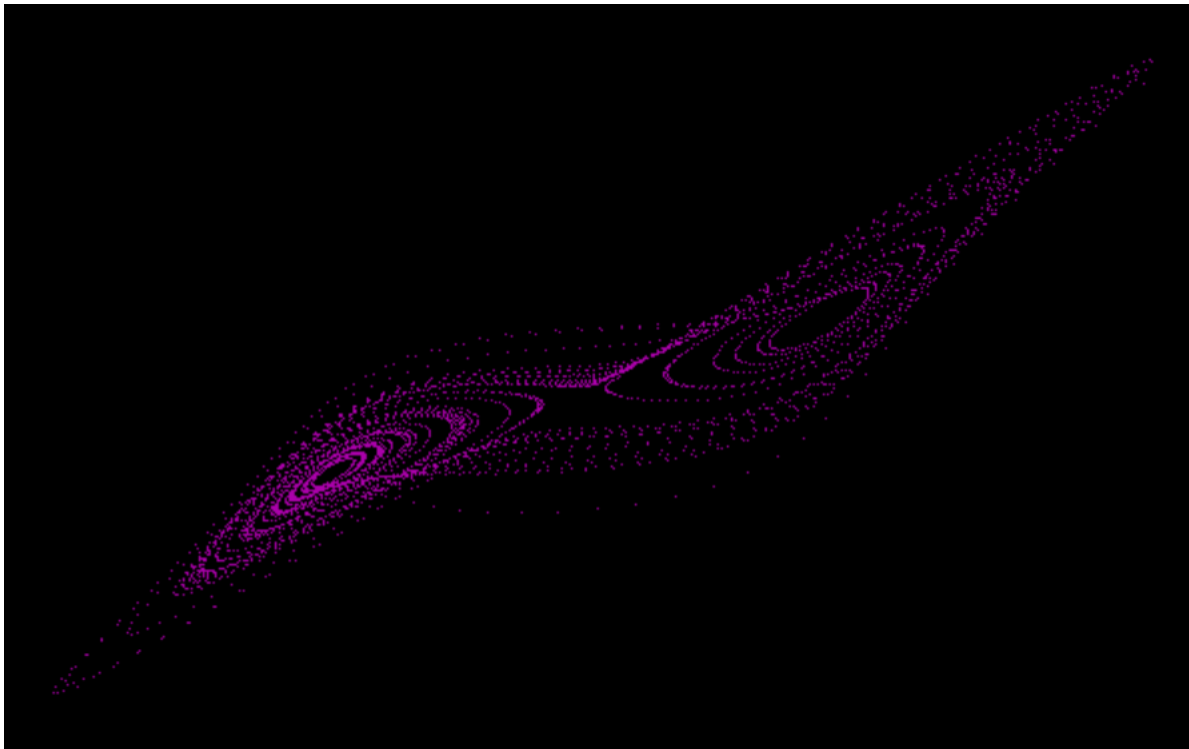
The Lorenz attractor is a set of chaotic solutions of the Lorenz system which, when plotted, resemble a butterfly or figure eight.

Lorenz2D.bas



Lorenz Attractor x-y axis

Lorenz3D.bas



Lorenz Attractor x-y-z axis

Lorenz Equations:

These are three ordinary differential equations which are the basis of simplified mathematical model for atmospheric convection

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

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

$$\frac{dz}{dt} = xy - \beta z.$$