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Lorenz attractor

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Lorenz Attractor: Source Code

Source Code

The source code to simulate the Lorenz attractor in [GNU Octave](#) follows.

```
% Lorenz Attractor equations solved by ODE Solve
```

```
% Using LSODE to solve the ODE system.
```

```
Isode_options"absolute tolerance",1e-3
```

```
Isode_options"relative tolerance",1e-4
```

```
X,T,MSG=Isode@lorenzatt,X0,t;
```

Other Relevant or Related Items

- [List of chaotic maps](#)
- [Takens' theorem](#)
- [Mandelbrot set](#)

- [Jonas Bergman, Knots in the Lorenz Equation](#), Undergraduate thesis, Uppsala University 2004.

Lorenz attractor

Sub Topics Navigation:

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Overview

Equations

Rayleigh Number

Source Code

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F# hackers welcome! Program in OCaml at Jane Street
janestreet.com

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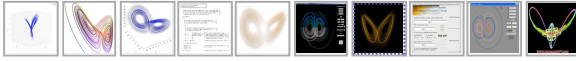
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[Geometry for ages 5-14](#)

Practice area, volume, perimeter, shape names, terms, so much more!
www.ixl.com/math



Image Gallery :: Lorenz Attractor Source Code



Related Resources : Lorenz Attractor

01. demonstrations.wolfram.com/LorenzAttract : Lorenz attractor by Rob Morris, Wolfram Demonstrations Project.
02. planetmath.org/encyclopedia/LorenzEquati : Lorenz equation on planetmath.org
03. mizuno.org/c/la/index.shtml : For drawing the Lorenz attractor, or coping with a similar situation using ANSI C and gnuplot.
04. toxi.co.uk/lorenz : Lorenz attractor interactive animation (you need the Adobe Shockwave plugin)
05. levitated.net/daily/levLorenzAttractor.h : Levitated.net: computational art and design
06. amath.colorado.edu/~juanga/3DAttractors : 3D Attractors: Mac program to visualize and explore the Lorenz attractor in 3 dimensions
07. ibiblio.org/e-notes/VRML/Lorenz/Lorenz.h : 3D VRML Lorenz attractor (you need a VRML viewer plugin)
08. jsoftware.com/jwiki/Essays/Lorenz_Attrac : Essay on Lorenz attractors in J - see J programming language
09. student.fiiit.stuba.sk/~bachratv02/mes/ap : Applet for non-linear simulations (select "Lorenz attractor" preset), written by Viktor Bachraty in Jython
10. frank.harvard.edu/~paulh/misc/lorenz.htm : Lorenz Attractor implemented in analog electronic
11. martinlaprise.info/2010/02/28/visualizin : Visualizing the Lorenz attractor in 3D with Python and VTK

Code Review C/C++

Flowcharts beautifier Comment-tool Trees, Cross-reference, Metrics
www.sgvsrc.com



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Related Resources :: Lorenz Attractor Source Code

01. [Lorenz Attractor Source Code Documentation](#) - Makefile Up No Title Previous Analysis of Congeniality. Lorenz Attractor Source Code Documentation. This appendix contains the source code used in experimenting with the Lorenz attractor
02. [The Lorenz Attractor](#) - C source code with comments to draw the Lorenz attractor, or coping with a similar situation. Many plotting softwares, e.g. gnuplot and Excel can be used for drawing the result.
03. [Source Code](#) - Of the programs below, only the Lorenz attractor animation is interactive. The others all require changes to the source code and recompilation if you want them to
04. [Lorenz Attractor Information, Lorenz Attractor Reference Articles](#) - Source code The source code to simulate the Lorenz attractor in GNU Octave follows. Lorenz Attractor equations solved by ODE Solve x' sigma y-x

Related Categories

01. [Category:Chaotic maps](#)

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