

Scilab By Example

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ode - Ordinary differential equation solver - Scilab

Scilab on NVLI Cloud; Scilab on Aakash; FOSSEE Scilab Toolbox.

Optimization Toolbox. Installation Instructions; Documentation;

Examples; Contributors; Signal Processing Toolbox; Image Processing and Computer Vision Toolbox; System Identification Toolbox; Control System Toolbox; Scilab To C Toolbox; Scilab Octave Interface Toolbox; Examples for ...

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Scilab Examples – 2D plots. This is a practical approach to plots in Scilab. Several examples are shown to explore the capabilities of this software. After each line of code is explained, we show the result produced. Simplest forms Function plot2d plots a set of 2D curves.

Scilab Examples

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Chapter"1–"Become"familiar"with"Scilab"

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xdata = linspace ( 1 , 10 , 50 );
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plot ( xdata , ydata )
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Plotting | www.scilab.org

Step 1: The purpose of this tutorial. The purpose of this Scilab tutorial is to provide a collection of plotting examples that can be used in Scilab to show data. Here, on the right, we report some definitions used when plotting data on figures. Step 2: Roadmap. Examples refer to 1D, 2D, vector fields and 3D problems.

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For example, the Scilab / Tcl interface (TclSci), the graphic editor and the variable editor are not working. These features will be rewritten in Java in future versions of Scilab and these limitations

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INTRODUCTION TO SCILAB

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The instruction is the piece of code that is evaluated each time the control variable is incremented as long as the condition within the expression is satisfied.. Let's apply the for loop structure to our function (in a Scilab script):. `for x=1:1:5 f(x) = x^2 + sqrt(x); end.` In our example x is the index which gets incremented and also the function argument.

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In this Scilab tutorial, we introduce readers to the Control System Toolbox available in Scilab/Xcos and known as CACSD. This first tutorial is dedicated to "Linear Time Invariant" (LTI) systems and their representations in Scilab. An RLC example is used to explain state-space representation, transfer function, and the zero-pole representations.

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Scilab provides a programming structure called script that lets you type a block of statements, assign a name to it, and then call it by name whenever you want your program to execute it. Scripts and functions (procedures) provide the following advantages:

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Options to the plot command . There are a number of options to the plot command, which you can read by typing help plot in the Scilab Control Window. Let me give two examples. First, I can plot individual points together with a connected line:

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