О СИСТЕМАХ КОМПЬЮТЕРНОЙ МАТЕМАТИКИ НА ОСНОВЕ СВОБОДНОГО ПРОГРАММНОГО ОБЕСПЕЧЕНИЯ

Scilab

http://www.scilab.org/

Scilab

http://www.scilab.org/

Scilab Home Page - Mozilla Firefox

Файл Правка Вид Журнал Закладки Инструменты Справка

http://www.scilab.org/

Самые популярные Начальная страница Лента новостей

New trends around Scilab

Parallel execution on clusters and desktop grids

ProActive is the Java GRID middleware library for parallel, distributed and multi-threaded computing.

The goal of the ProActive Interface is to equip Scilab with a generic interface to Grid computing. This extension has to allow the deployment of Scilab instances on several nodes of the grid, to use these instances like computing engines, and to submit Scilab tasks over the grid.

Scilab/Scicos code generator for DSP/micro controller

Using the Scilab/Scicos FLEX Toolbox (now update to the last Scilab 4.1.2) it is possible to automatically generate code from Scicos diagrams to fast prototype digital control systems for micro controller and DSP embedded application.

This work has been done by Evidence (Italy) in collaboration with Simone Mannori (INRIA Roquencourt, Fr) and Roberto Bucher (SUPSI Lugano, Ch).

Embedding Scilab/Scicos

Scilab-EMB is the porting of the complete Scilab 4.x platform on a Linux OS optimized for embedded PC based on ARM processor. The full documentation of the project it is available on the web site maintained by Zhe Peng (Cn) and Longhua Ma (Cn).

Scilab in european and national projects

hArtes

Scilab takes part in European project named "hArtes" funded by FP6 call5 Embedded Systems. hArtes aims to lay the foundation for a new holistic (end-to-end) approach for complex real-time embedded system design, with the latest algorithm exploration tools and reconfigurable hardware technologies.

From the application point of view, the complexity of future multimedia devices is becoming too big to design monolithic processing platforms. This is where the hArtes approach with reconfigurable heterogeneous system becomes vital.

SCOS

Investments in industries and research labs are done too many times in the scientific computing area. Therefore, SCOS will propose to build up the necessary frame to make it easy through interoperability, open standards (for open or commercial applications) and using some Open Source easy-to-use tools.

Scientific Computing has to enter the world of industrialized solutions. Shared standards and interoperability should be the rule, no the exception any. This is the aim of the SCOS project: make the scientist's life easiest, sharing tools and results with its colleague when needed.

OMD

The Multidisciplinary Optimization project (OMD) is an initiative gathering public laboratories and companies around the optimization of complex systems. This project is supported by the participants and the National Agency of French Research / National Network of Software Technologies (ANR/RNTL).

Exploratory project OMD proposes the development of tools for collaborative and robust optimization. These tools will be validated on three real cases in aircraft, space and automobile industries. They will be available as Scilab toolbox.

Готово

Одна активная загрузка (Осталось 6 минут)

Scilab

http://www.scilab.org/

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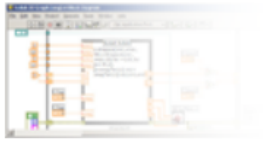
Scilab - LabVIEW™ Gateway



Connecting LabVIEW with Scilab ... and getting Scilab's power through LabVIEW.
Download Scilab - LabVIEW Gateway.
LabVIEW is a trademark of National Instruments.

Scilab used in Eurocodes

The French Ministry of Ecology, Sustainable Development and Town and Country Planning advises, for research departments and for public construction & building sector, to employ Scilab to get used to the Eurocodes.

The Eurocodes are a new set of European structural design codes for building and civil engineering works.

Scilab toolboxes

Scilab is an open source software. There are many ways to contribute to Scilab, and users are invited to share their experience of Scilab by submitting their own functions, toolboxes, documentation, user guides, translations etc. Your contribution to Scilab is welcome.
See the dedicated web pages.

Numerical Mathematics Consortium

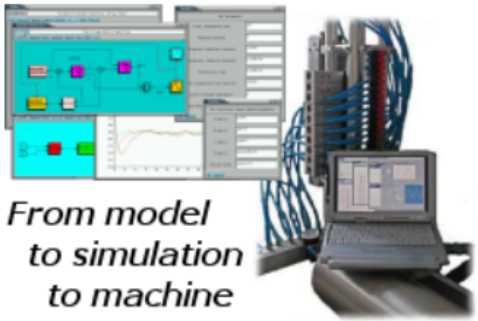
NMC Numerical Mathematics Consortium

News release - Sep. 24, 2007
Numerical Mathematics Consortium Updates Open Standard for Algorithm Development. Revised Specification Addresses New Functions and Lays Foundation for Active Involvement.
See the Press release.

Find the European site of the NMC, the press releases and the works in progress about development of the semantics of the mathematical functions.

Scicos: Scilab's block diagram modeler/simulator

Developped by Metalau research-team, from INRIA Paris - Rocquencourt research center, Scicos is a graphical dynamical system modeler and simulator toolbox.
Scicos is used for applications in control, communication, signal processing, queuing systems, electromechanical, physical and biological systems.
With Scicos you can create block diagrams to model and simulate the dynamics of hybrid dynamical systems and generate standalone C source code.
Note that Scicos is delivered into Scilab.



Scilab software - Scilab consortium - License & trademark - Press room - Job opportunities - Guestbook
Download center - Documentation & support center - Toolboxes center - Development center - Mailing lists - Books, Reports & Articles - Giws

Готово

Scilab

http://www.scilab.org/

Консоль

File Правка Настройки Управление Инструменты ?

Консоль

```
                    scilab-5.1

                Consortium Scilab (DIGITEO)
              Copyright (c) 1989-2009 (INRIA)
              Copyright (c) 1989-2007 (ENPC)


Startup execution:
  loading initial environment

-->
```

SciPad 7.18 - Untitled1.sce (modified)

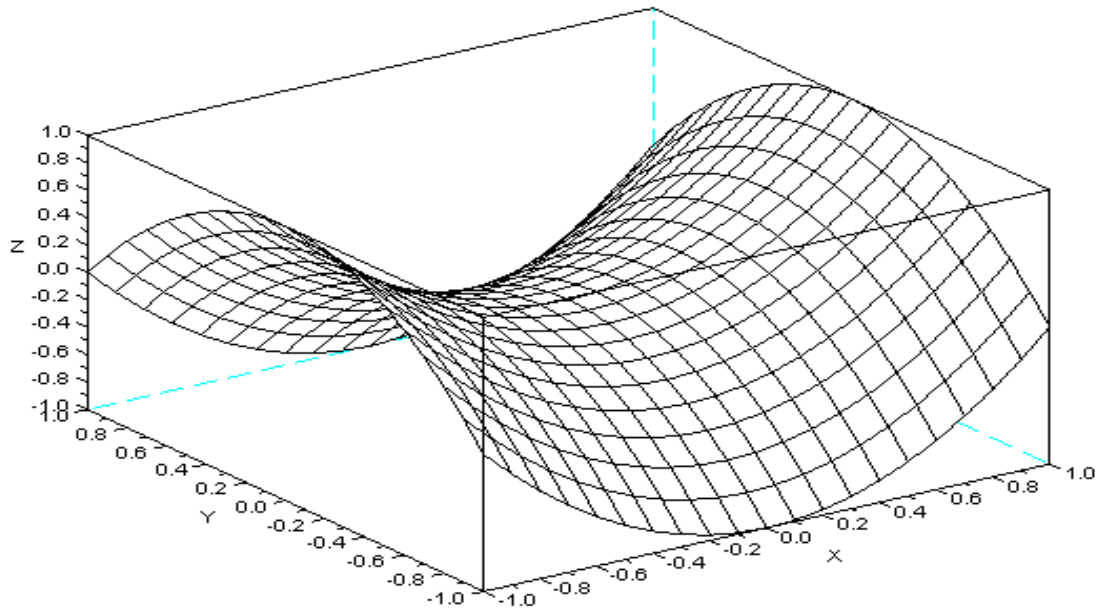
File Edit Search Execute Debug Scheme Options Windows Help

```
1 [X,Y]=meshgrid(-1:0.1:1,-1:0.1:1);
2 Z=X.^2-Y.^2;
3 mesh(X,Y,Z)
```

Графическое окно номер 0

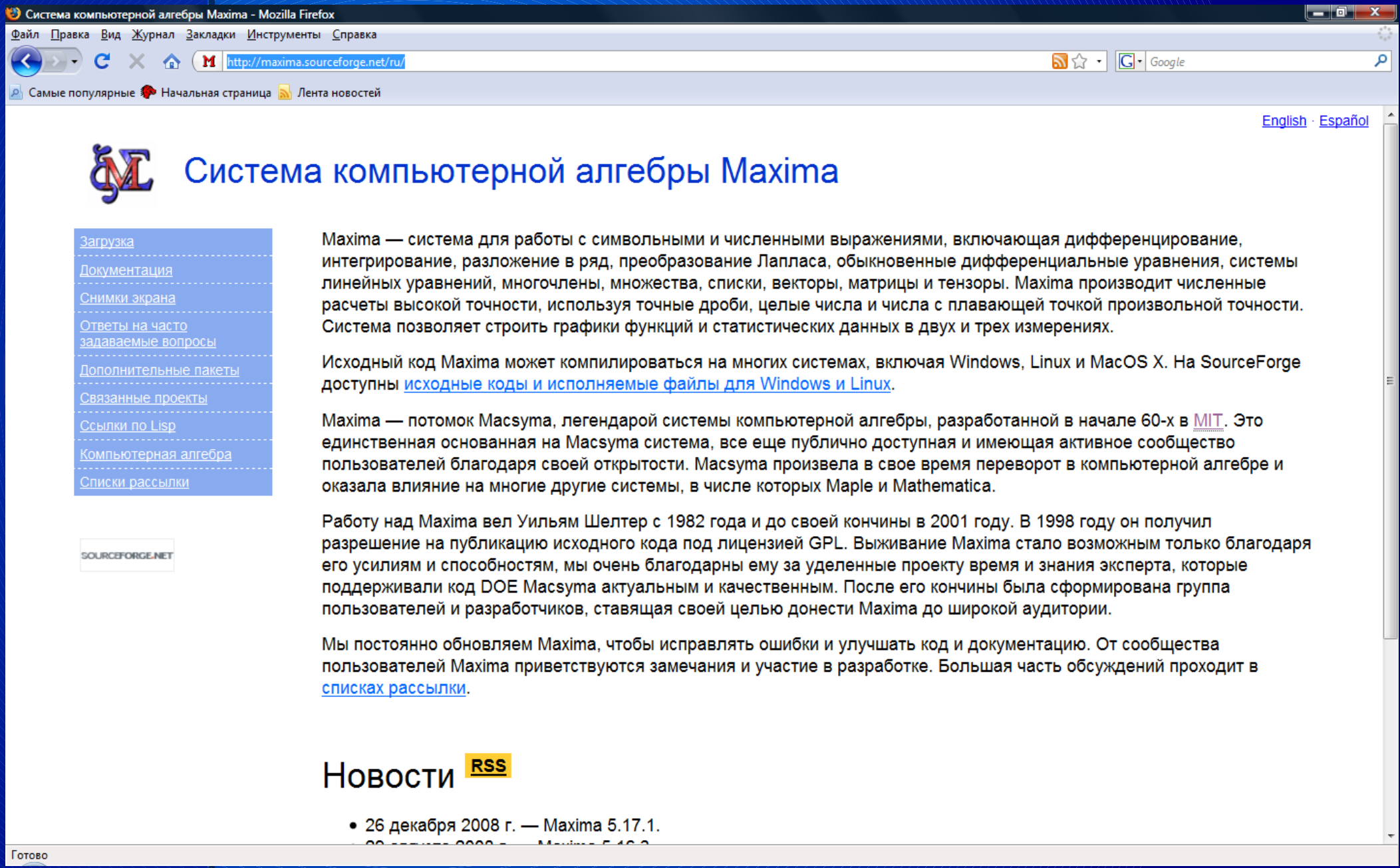
File Tools Правка ?

Графическое окно номер 0



Maxima

http://maxima.sourceforge.net/ru/



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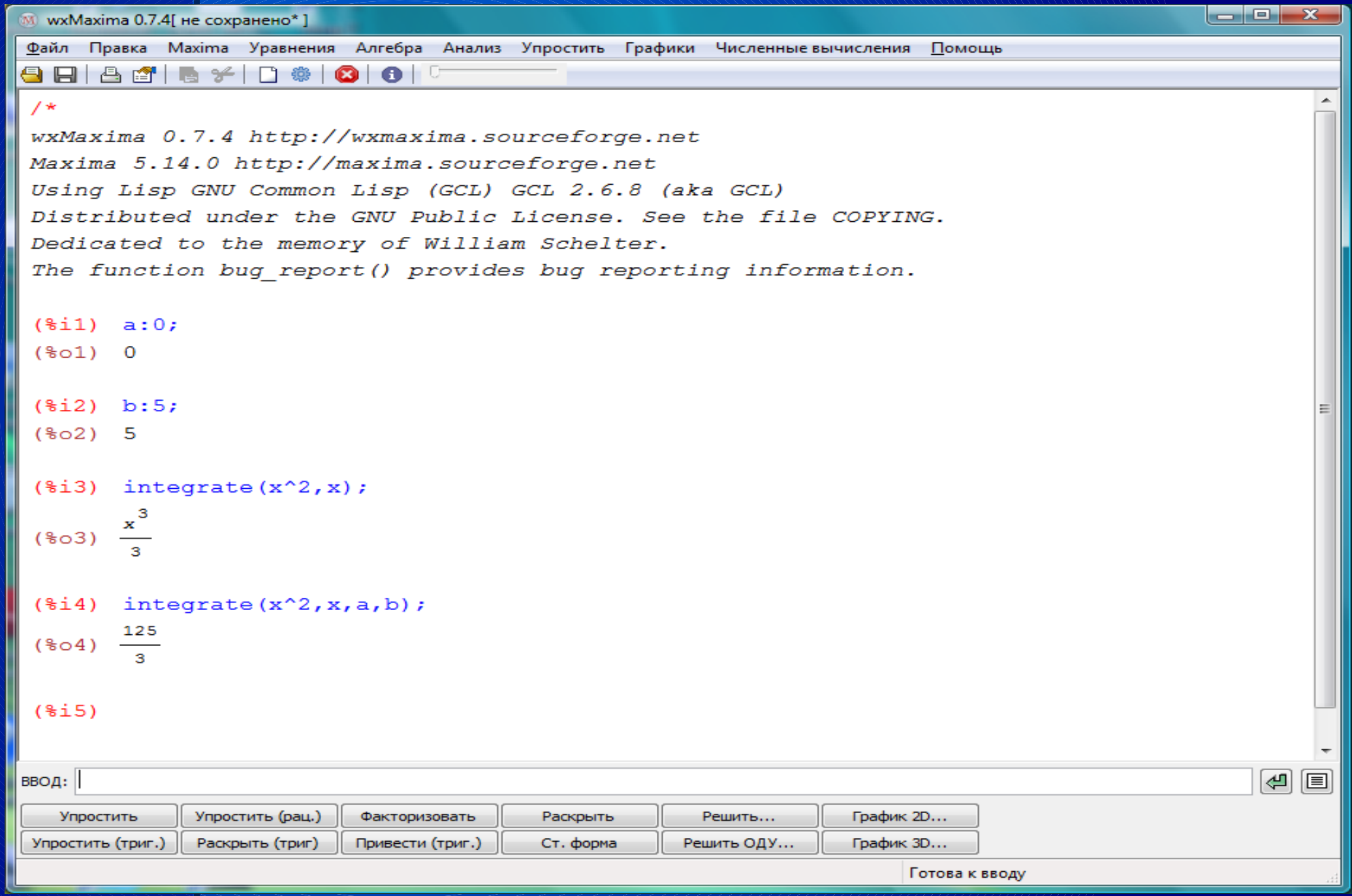

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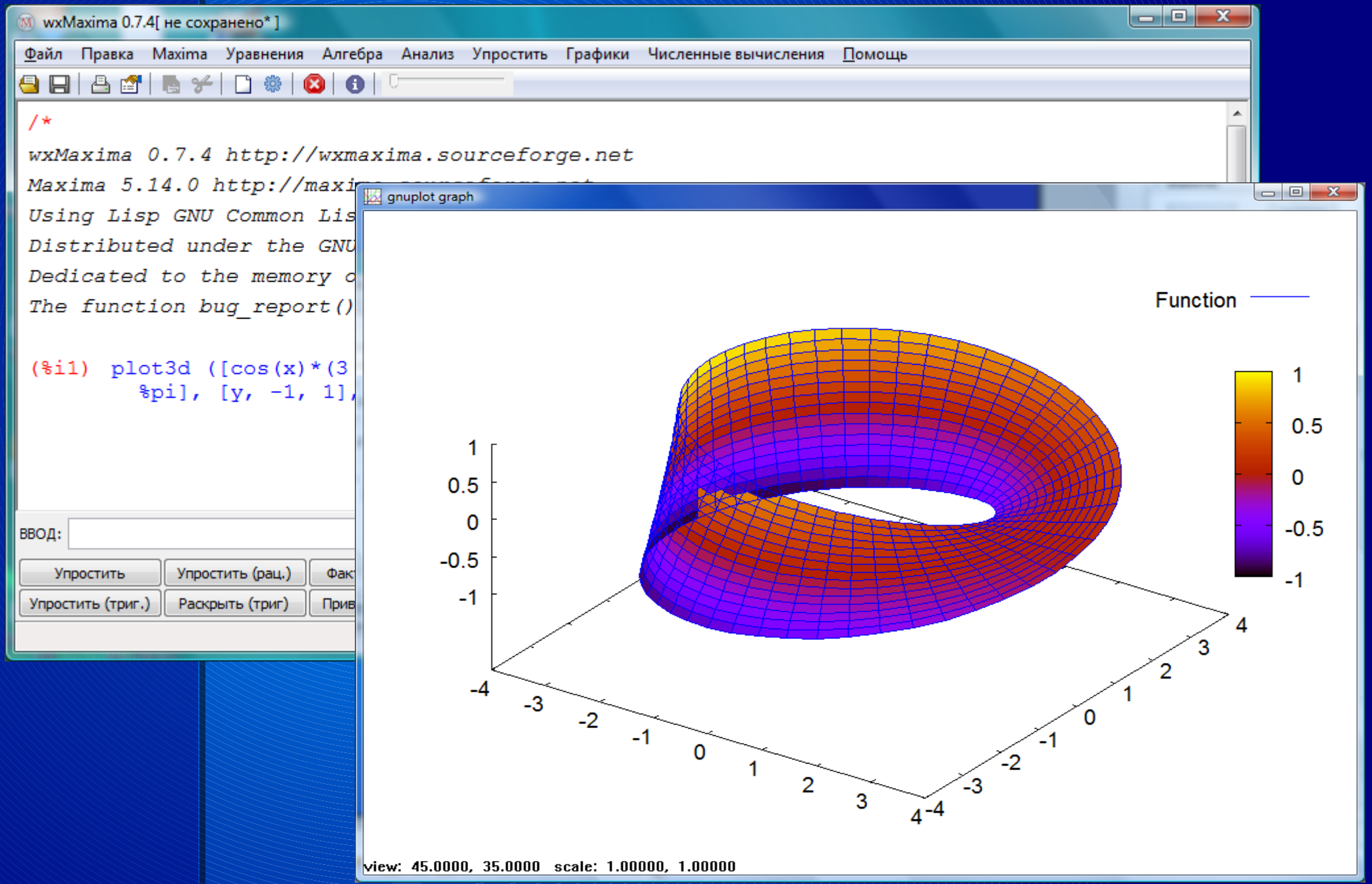


R

http://r-project.org/

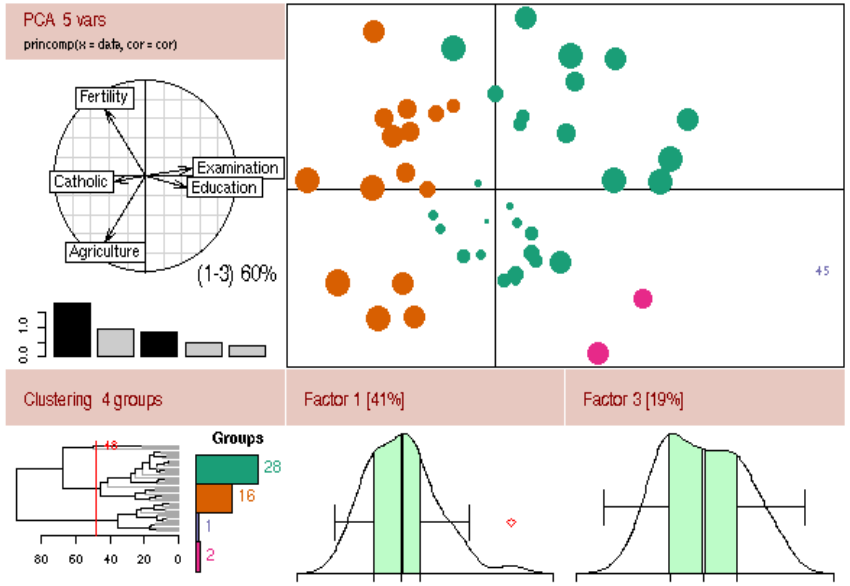
The R Project for Statistical Computing - Mozilla Firefox

Файл Правка Вид Журнал Закладки Инструменты Справка

http://www.r-project.org/

Самые популярные Начальная страница Лента новостей

The R Project for Statistical Computing



About R
- What is R?
- Contributors
- Screenshots
- What's new?

Download
- CRAN

R Project
- Foundation
- Members & Donors
- Mailing Lists
- Bug Tracking
- Developer Page
- Conferences
- Search

Documentation
- Manuals
- FAQs
- Newsletter
- Wiki
- Books
- Certification
- Other

Misc
- Bioconductor
- Related Projects
- Links

Getting Started:

- R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To **download R**, please choose your preferred CRAN mirror.
- If you have questions about R like how to download and install the software, or what the license terms are, please read our answers to frequently asked questions before you send an email.

News:

- **R version 2.8.1** has been released on 2008-12-22.
- **R News 8/2** has been published on 2008-11-03.
- **DSC 2009**, The 6th workshop on Directions in Statistical Computing, will be held at the Center for Health and Society, University of Copenhagen, Denmark, July 13-14, 2009.
- **useR! 2009**, the R user conference, will be held at Agrocampus Rennes, France, July 8-10, 2009.
- **useR! 2008**, has been held at Dortmund University, Germany, August 12-14, 2008.

Готово

R

http://r-project.org/

RGui

Файл История команд Изменить размер Окна

R Console

```
R version 2.7.2 (2008-08-25)
Copyright (C) 2008 The R Foundation for Statistical Computing
ISBN 3-900051-07-0

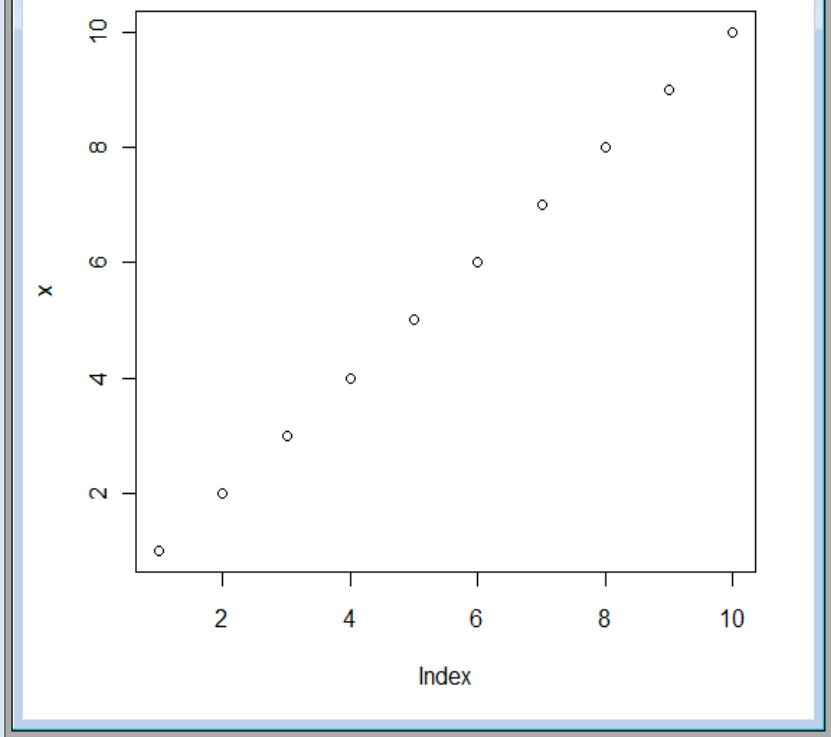
R -- это свободное ПО, и оно поставляется безо всяких гарантий.
Вы вольны распространять его при соблюдении некоторых условий.
Введите 'license()' для получения более подробной информации.

R -- это проект, в котором сотрудничает множество разработчиков.
Введите 'contributors()' для получения дополнительной информации и
'citation()' для ознакомления с правилами упоминания R и его пакетов
в публикациях.

Введите 'demo()' для запуска демонстрационных программ, 'help()' -- для
получения справки, 'help.start()' -- для доступа к справке через браузер.
Введите 'q()', чтобы выйти из R.

> x=1:10
> x
 [1]  1  2  3  4  5  6  7  8  9 10
> y=rnorm(100)
> y
  [1]  0.623068682  2.673538874 -0.004529752  0.582792200 -0.200529582
  [6] -0.771496903 -1.364347348 -0.557229282 -0.475370302 -0.512603647
 [11] -1.739635171 -1.434349635  0.862168797 -0.328941091 -0.597560908
 [16]  0.683074136  0.088651123  0.101977836  0.344233468 -0.246832418
 [21]  0.188366808 -0.111847858 -0.015806140  0.726008286  0.276804730
 [26]  0.349221259 -0.516941083 -0.592690079 -0.863011480 -0.656889284
 [31] -1.191788046 -0.159400774  1.371221742 -0.324680420 -0.450638151
 [36]  1.216254018 -0.515620272  0.055562055 -0.589756894  0.109943530
 [41]  1.715321321 -0.829631486 -0.845610495 -0.275587339 -0.750772945
 [46]  0.605683825  0.543722445 -0.599798247  0.846718582 -0.140872073
 [51]  0.484292100  1.314402840 -1.204893039  2.303982229 -0.074764775
 [56]  0.743530898  0.730350547 -0.112865887 -1.426902787 -1.180934753
 [61]  0.420756265 -0.311163583 -2.023643966  0.610797953 -1.265767350
 [66] -0.314422797  0.251953897  0.582265658  0.563717314  0.095666863
 [71]  0.525198082 -0.051887419 -0.038822661  0.560693718 -0.727134854
 [76] -0.915456659 -0.989453815  0.383990669 -1.405178557  1.232053103
 [81]  0.712043758  0.001761789 -2.077550866  0.412986846 -0.700704196
 [86] -0.799083403  1.050392375 -0.011373662  0.204126934  1.363243311
 [91]  0.143200671  1.694496856 -0.879734280  0.127382794  0.337766721
 [96] -0.489673290 -0.375986646  0.188509635  1.435576758 -0.621639575
> plot(x)
>
```

R Graphics: Device 2 (ACTIVE)



R

http://r-project.org/

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Файл История команд Изменить размер Окна

R Console

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Copyright (C) 2008 The R Foundation for Statistical Computing
ISBN 3-900051-07-0

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> x=1:10
> x
 [1]  1  2  3  4  5  6  7  8  9 10
> y=rnorm(100)
> y
  [1]  0.623068682  2.673538874 -0.004529752  0.582792200 -0.200529582
  [6] -0.771496903 -1.364347348 -0.557229282 -0.475370302 -0.512603647
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 [16]  0.683074136  0.088651123  0.101977836  0.344233468 -0.246832418
 [21]  0.188366808 -0.111847858 -0.015806140  0.726008286  0.276804730
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 [31] -1.191788046 -0.159400774  1.371221742 -0.324680420 -0.450638151
 [36]  1.216254018 -0.515620272  0.055562055 -0.589756894  0.109943530
 [41]  1.715321321 -0.829631486 -0.845610495 -0.275587339 -0.750772945
 [46]  0.605683825  0.543722445 -0.599798247  0.846718582 -0.140872073
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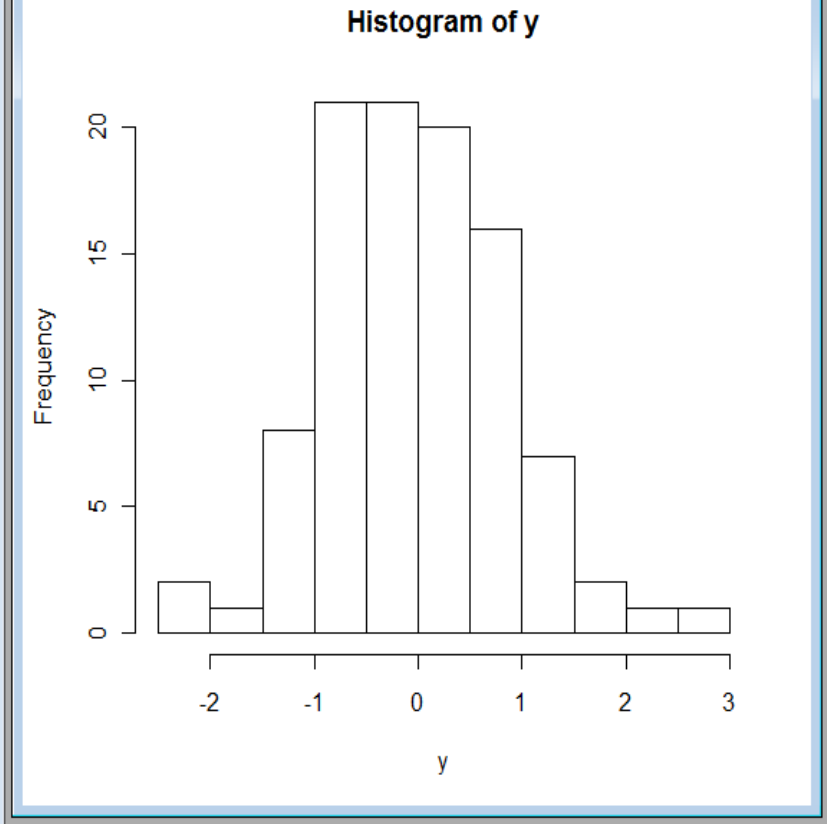
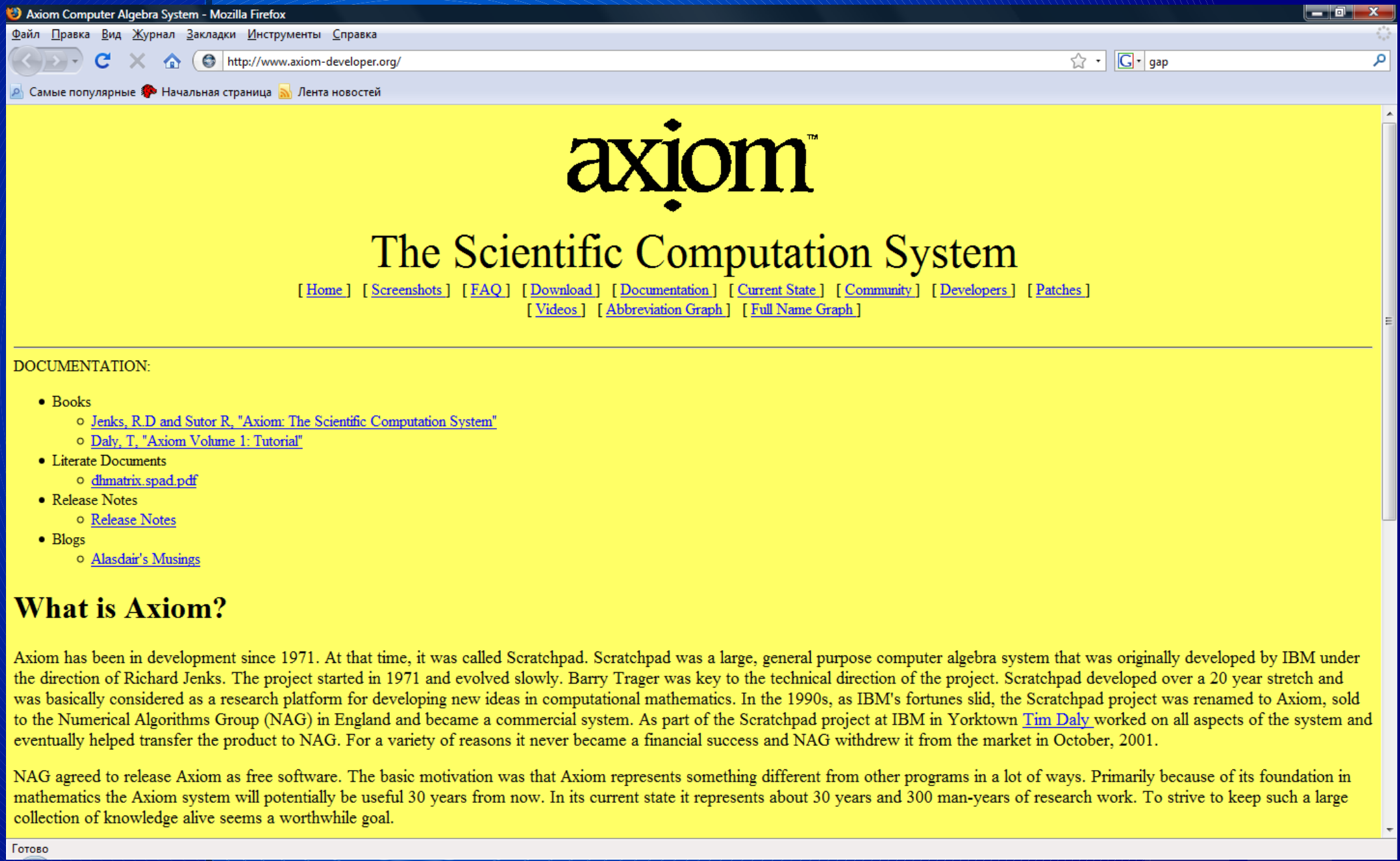
 [91]  0.143200671  1.694496856 -0.879734280  0.127382794  0.337766721
 [96] -0.489673290 -0.375986646  0.188509635  1.435576758 -0.621639575
> plot(x)
> hist(y)
>
```

R Graphics: Device 2 (ACTIVE)



Axiom

http://www.axiom-developer.org/



Gap

http://www.gap-system.org/

Sage

http://www.sagemath.org/