



Technical University of Lodz
Institute of Electronics

Algorithms and Data Structures

Useful links

Łódź 2012





python.org

<http://docs.python.org/tutorial/>



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Python Jobs

Python Merchandise

Python Wiki

Python Insider Blog

Python Programming Language

Python is a programming language that quickly and integrate your systems more can learn to use Python and see almost productivity and lower maintenance cost

Python runs on Windows, Linux/Unix, Mac ported to the Java and .NET virtual machine

Python is free to use, even for commercial its OSI-approved [open source license](#).

New to Python or choosing between Python Read [Python 2](#) or [Python 3](#).

The [Python Software Foundation](#) holds the rights behind Python, underwrites the [PyCon](#) funds many other projects in the Python community

[Read more, -or- download Python now](#)

» Python 3.3.0 released

[Python 3.3.0](#) has been released.

Published: Sat, 29 September 2012, 18:00

» [Third rc for Python 3.3.0 released](#)

Python v2.7.3 documentation »

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The Python Tutorial

Release: 2.7

Date: October 06, 2012

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms.

The Python interpreter and the extensive standard library are freely available in source or binary form for all major platforms from the Python Web site, <http://www.python.org/>, and may be freely distributed. The same site also contains distributions of and pointers to many free third party Python modules, programs and tools, and additional documentation.

The Python interpreter is easily extended with new functions and data types implemented in C or C++ (or other languages callable from C). Python is also suitable as an extension language for customizable applications.



pl.python.org

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Vortal: pl.python.org Forum: pl.python.org/forum Dokumentacja: pl.python.org/docs Planeta: pl.python.org/planeta Paste: python.wklej.to IRC: [#python.pl](https://irc.python.pl)

Community

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Wiedza

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News

SciPy 0.11.0 wydane

Ponad 50-osobowy zespół składający się z programistów i naukowców, po 8-miesiącach ciężkiej pracy wydaje na światło dzienne kolejną wersję SciPy. Darmowa i wieloplatformowa biblioteka Python przeznaczona do zastosowań naukowych i inżynierskich, przeszła dogłębny liting.

SciPy 0.11.0 zapewnia wiele nowych funkcji, liczne poprawki błędów, zwiększony zasięg testów i lepszą dokumentację. Skróć to i wstaw:

- nowy moduł `sparse.csgraph`, dostarczający szereg szybkich algorytmów grafowych,
- nowy, wieloplatformowy interfejs do funkcji `scipy.optimize` dla sieci poszukujących rozwiązań w drzewie.

Użycie SciPy 0.11.0 wymaga się z posiadaniem Pythona 2.4-3.2 i biblioteki NumPy 1.5.1

Więcej informacji: docs.scipy.org

Dodał: Piotr Tynecki, Kategorie: News Data: 2012-10-06 16:52:19, Komentarzy (0)

paramiko - zdalny dostęp z użyciem Pythona

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Forum

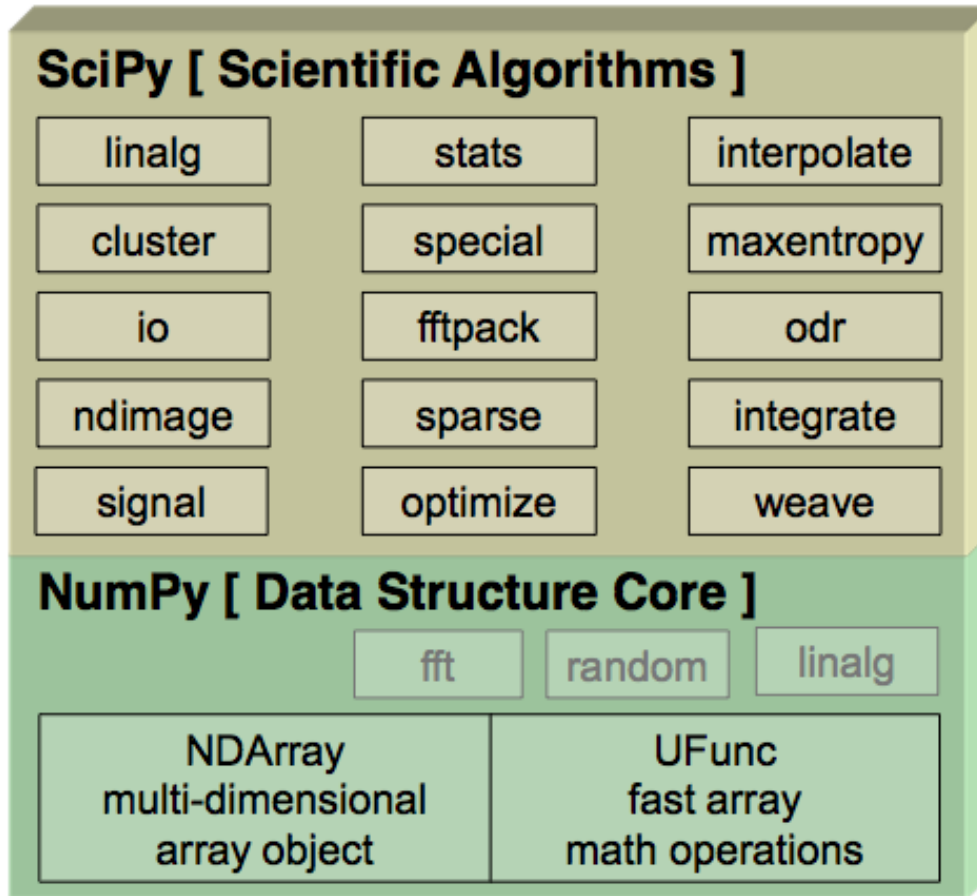


Numpy/Scipy

The fundamental packages for engineering/scientific computing!

ENTHOUGHT

NumPy and SciPy





Numpy/Scipy

SciPy.org » Numpy and Scipy Documentation »

Numpy and Scipy Documentation

Welcome! This is the documentation for Numpy and Scipy .

For contributors:

Write, review and proof the documentation
Numpy developer guide

Latest releases:

Numpy Reference Guide
[HTML+zip], [HTML-help (CHM)], [PDF]

Numpy User Guide (DRAFT)
[PDF]

Scipy Reference Guide
[HTML+zip], [CHM], [PDF]

Others:

Numpy (development version) Reference Guide, [HTML+zip], [CHM], [PDF]

Numpy (development version) User Guide (DRAFT), [PDF]



See also:

SciPy.org

all things NumPy/SciPy (bug reports, downloads, conferences, etc.)

Additional documentation

additional tutorials and other documentation resources

Scipy Central

code snippet and link sharing site for scientific Python programming

Cookbook

user-contributed examples and recipes for common tasks

Mailing Lists

main discussion channels

NumPy



[Download](#)



[Getting Started](#)

[Do](#)

NumPy is the fundamental package for scientific computing with Python. It provides a high-performance multidimensional array object, and tools for working with these arrays. It also provides a powerful N-dimensional array object, and tools for working with these arrays.

- a powerful N-dimensional array object
- sophisticated (broadcasting) operations
- tools for integrating C/C++ and Fortran code
- useful linear algebra, Fourier transforms, and image processing

Besides its obvious scientific use, NumPy can be used as a convenient container of generic data. Arbitrary data-types and very fast integer arrays allow NumPy to speedily integrate with a wide variety of databases.

NumPy is licensed under the [BSD license](#).

Getting Started

- [Getting NumPy](#)
- [Installing NumPy and SciPy](#)
- [NumPy and SciPy documentation](#)
- [NumPy Tutorial](#)
- [NumPy for MATLAB® Users](#)
- [NumPy functions by category](#)
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I, colleague, d away on s little more ite speaker at s of cancer rrible illness. iend highlights r our work and

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Numpy

http://www.scipy.org/Tentative_NumPy_Tutorial

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Numpy Example List With Doc

This is an auto-generated version of [Numpy Example List](#) with added doc and functions of Numpy 1.2.1.
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Tentative NumPy Tutorial

Please do not hesitate to click the *edit* button. You will need to

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 - Indexing with Boolean Arrays
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 - Indexing with strings

http://www.scipy.org/Numpy_Example_List_With_Doc



SciPy

» SciPy v0.11 Reference Guide (DRAFT) »

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SciPy

Release: 0.11

Date: September 30, 2012

SciPy (pronounced "Sigh Pie") is open-source software for mathematics, science, and e

- SciPy Tutorial
 - Introduction
 - Basic functions in Numpy (and top-level scipy)
 - Special functions (`scipy.special`)
 - Integration (`scipy.integrate`)
 - Optimization (`scipy.optimize`)
 - Interpolation (`scipy.interpolate`)
 - Fourier Transforms (`scipy.fftpack`)
 - Signal Processing (`scipy.signal`)
 - Linear Algebra (`scipy.linalg`)
 - Sparse Eigenvalue Problems with ARPACK
 - Compressed Sparse Graph Routines `scipy.sparse.csgraph`
 - Statistics (`scipy.stats`)
 - Multi-dimensional image processing (`scipy.ndimage`)
 - File IO (`scipy.io`)
 - Weave (`scipy.weave`)
- Contributing to SciPy
- API - importing from Scipy
- Release Notes

Reference

- Clustering package (`scipy.cluster`)
- Constants (`scipy.constants`)
- Discrete Fourier transforms (`scipy.fftpack`)
- Integration and ODEs (`scipy.integrate`)



Matplotlib - <http://matplotlib.org/>

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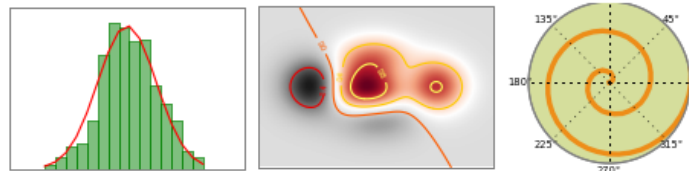
John Hunter (1968-2012)

On August 28 2012, John D. Hunter, the creator of matplotlib, died from complications arising from cancer treatment, after a brief but intense battle with this terrible illness. John is survived by his wife Miriam, his three daughters Rahel, Ava and Clara, his sisters Layne and Mary, and his mother Sarah.

If you have benefited from John's many contributions, please say thanks in the way that would matter most to him. Please consider making a donation to the [John Hunter Memorial Fund](#).

Introduction

matplotlib is a python 2D plotting library which produces publication quality figures in a variety of hardcopy formats and interactive environments across platforms. matplotlib can be used in python scripts, the python and [ipython](#) shell (ala [MATLAB](#)[®] or [Mathematica](#)[®]), web application servers, and six graphical user interface toolkits.





To be continued...

- <http://www.enthought.com/>
- <http://docs.enthought.com/mayavi/mayavi/>
- <http://docs.enthought.com/mayavi/tvtk/>
- <http://code.enthought.com/projects/traits/>
- http://code.enthought.com/projects/traits_ui/
- <http://www.wxpython.org/>
- <http://wiki.wxpython.org/AnotherTutorial>
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- <http://www.pythonware.com/library/tkinter/introduction/index.htm>
- <http://www.pygame.org/news.html>