# python-numpy 1.13.3

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numpy/core/src/umath/ufunc\_object.c Travis E. Oliphant 2005, 2006 oliphant@ee.byu.edu (oliphant.travis@ieee.org) Brigham Young University

based on the

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with inspiration and code from Numarray Space Science Telescope Institute J. Todd Miller Perry Greenfield Rick White

numpy/core/arrayprint.py
Written by Konrad Hinsen <hinsenk@ere.umontreal.ca>
last revision: 1996-3-13
modified by Jim Hugunin 1997-3-3 for repr's and str's (and other details)
and by Perry Greenfield 2000-4-1 for numarray
and by Travis Oliphant 2005-8-22 for numpy

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with contributions from many Numeric Python developers 1995-2004

Heavily modified in 2005 with inspiration from Numarray

by

Travis Oliphant, oliphant@ee.byu.edu Brigham Young Univeristy

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Numarray design (which provided guidance) by Space Science Telescope Institute (J. Todd Miller, Perry Greenfield, Rick White)

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Modified for numpy in 2005

Travis E. Oliphant oliphant@ee.byu.edu Brigham Young University

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### Pearu Peterson

numpy/distutils/system\_info.py
Authors:
Pearu Peterson <pearu@cens.ioc.ee>, February 2002
David M. Cooke <cookedm@physics.mcmaster.ca>, April 2002

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The implementations of rk\_hypergeometric\_hyp(), rk\_hypergeometric\_hrua(), and rk\_triangular() were adapted from Ivan Frohne's rv.py which has this license:

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numpy/random/mtrand/initarray.c
The following changes have been made to it in 2005 by Robert Kern:

\* init\_by\_array has been declared extern, has a void return, and uses the rk state structure to hold its data.

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The code in this module was based on a download from: http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html

It was modified in 2002 by Raymond Hettinger as follows:

- \* the principal computational lines untouched except for tabbing.
- \* renamed genrand\_res53() to random\_random() and wrapped in python calling/return code.
- \* genrand\_int32() and the helper functions, init\_genrand() and init\_by\_array(), were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.
- \* unused functions from the original were deleted. new, original C python code was added to implement the Random() interface.

The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init\_genrand(seed) or init\_by\_array(init\_key, key\_length).

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The rk\_random and rk\_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk\_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk\_double implementation by Isaku Wada.

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numpy/random/mtrand/Python.pxi

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## numpy/ma/\*

This package was initially written for numarray by Paul F. Dubois at Lawrence Livermore National Laboratory. In 2006, the package was completely rewritten by Pierre Gerard-Marchant (University of Georgia) to make the MaskedArray class a subclass of ndarray, and to improve support of structured arrays.

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- \* Adapted for numpy core 2005 by Travis Oliphant and (mainly) Paul Dubois.
- \* Subclassing of the base ndarray 2006 by Pierre Gerard-Marchant (pgmdevlist AT gmail DOT com)
- \* Improvements suggested by Reggie Dugard (reggie\_AT\_merfinllc\_DOT\_com)

Author: Pierre Gerard-Marchant < pierregm at uga dot edu>

numpy/core/src/multiarray/{lowlevel\_strided\_loops.c.src, nditer\_api.c, nditer\_constr.c, nditer\_pywrap.c, nditer\_templ.c.src}
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The University of British Columbia

numpy/core/src/multiarray/{array\_assign\_array.c, array\_assign.c, array\_assign\_scalar.c, datetime\_busday.c, datetime\_busdaycal.c, datetime\_strings.c}
Written by Mark Wiebe (mwwiebe@gmail.com)
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doc/cython/c\_numpy.pxd, doc/pyrex/c\_numpy.pxd

Author: Travis Oliphant

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