

## Numpy Essentials

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Module 3: The Essentials of NumPy. NumPy is the reason why Python stands among the ranks of R, Matlab, and Julia, as one of the most popular languages for doing STEM-related computing. It is a third-party library (i.e. it is not part of Python's standard library) that facilitates numerical computing in Python by providing users with a versatile N-dimensional array object for storing data, and powerful mathematical functions for operating on those arrays of numbers.

~~Module 3: The Essentials of NumPy - Python Like You Mean It~~

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NumPy Essentials Paperback - April 28, 2016 by Leo (Liang-Huan) Chin (Author), Tanmay Dutta (Author) 3.9 out of 5 stars 3 ratings. See all formats and editions Hide other formats and editions. Price New from Used from Kindle "Please retry" \$14.59 - - Paperback "Please retry" \$29.99 . \$29.99:

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The NumPy module is a powerhouse of off-the-shelf functionality for mathematical tasks. It adds greatly to Python's ease of development. The following is a brief summary of what the module contains, most of which we shall explore in this book. A far more detailed treatment of the NumPy module is in the definitive Guide to NumPy, Travis Oliphant. The NumPy API is so flexible that it has been adopted extensively by the scientific Python community as the standard API to build scientific ...

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Numpy library has some useful functions for finding insights and analyzing the data statistically. We can calculate mean, median, variance, standard deviation, compute histogram over a set of data, and much more. `numpy.mean()`: with this function, we can calculate the arithmetic mean of a given array where we can also specify the axis.

~~Cheatsheet for NumPy: Essential and Lesser Known Functions~~

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NumPy integrates C/C++ and Fortran codes in Python which execute faster as compared to Python. Python list is a heterogeneous collection of elements whereas a Numpy array is a homogeneous collection of elements stored in contiguous memory locations which results in faster access and execution.

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```
NumPy Essentials¶ In [3]: import numpy as np Numpy Arrays¶ In [4]: a = np.array([1, 2, 3, 5, 6, 7]) # a one dimensional array or singleton print type(a)
```

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Besides the help() and dir() functions in Python and other online documentation, NumPy also provides a helper function, numpy.lookfor(), to help you find the right function you need. The argument is a string, and it can be in the form of a function name or anything related to it.

~~Helper functions — NumPy Essentials~~

In Python we have lists that serve the purpose of arrays, but they are slow to process. NumPy aims to provide an array object that is up to 50x faster than traditional Python lists. The array object in NumPy is called ndarray, it provides a lot of supporting functions that make working with ndarray very easy. Arrays are very frequently used in data science, where speed and resources are very important.

~~Introduction to NumPy — W3Schools~~

NumPy Essentials. Contents ; Bookmarks An Introduction to NumPy. An Introduction to NumPy. The scientific Python stack. The need for NumPy arrays. NumPy in Academia and Industry. Code conventions used in the book. Installation requirements. Summary. The NumPy ndarray Object.

~~A boolean mask — NumPy Essentials~~

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10/7/2016. NumPy Data Science Essential Training introduces the beginning to intermediate data scientist to NumPy, the Python library that supports numerical, scientific, and statistical programming, including machine learning. The library supports several aspects of data science, providing multidimensional array objects, derived objects (matrixes and masked arrays), and routines for math, logic, sorting, statistics, and random number generation.

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Numpy Essentials (Paperback) By Leon Chin, Tanmay Dutta Packt Publishing Limited, United Kingdom, 2016.

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NumPy provides powerful indexing capabilities for arrays. Indexing capabilities in NumPy became so popular that many of them were added back to Python. Indexing NumPy arrays, in many ways, is very similar to indexing lists or tuples. There are some differences, which will become apparent as we proceed.

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