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## Numpy Essentials

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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,

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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~~

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.

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## ~~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.

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Summary. The NumPy ndarray Object.

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NumPy Essentials. 1st Edition, Kindle Edition. by Leo (Liang-Huan) Chin (Author), Tanmay Dutta (Author) Format: Kindle Edition. 3.5 out of 5 stars 2 ratings. Flip to back Flip to front.

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Build sophisticated data structures using NumPy array with libraries such as Panda and Scikits. In Detail. In today's world of science and technology, it's all about speed and flexibility. When it comes to

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scientific computing, NumPy tops the list. NumPy gives you both the speed and high productivity you need.

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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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