
NumPy Library



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NumPy (Numerical Python)

NumPy is a Python library used for working with arrays.

It also has functions for working in domain of linear algebra, fourier transform, and matrices.



Why NumPy?

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.

Why NumPy?

NumPy arrays are stored at one continuous place in memory unlike lists, so processes can access and manipulate them very efficiently.

This behavior is called locality of reference in computer science.

NumPy is a Python library and is written partially in Python, but most of the parts that require fast computation are written in C or C++.

Getting into NumPy

Head over to

https://colab.research.google.com/drive/1zCmb6fOCCuvINrnRsOImPnOZ7Rxs2_TJ?usp=sharing

Copy the notebook if you want to edit some of the code pieces!

QnA
